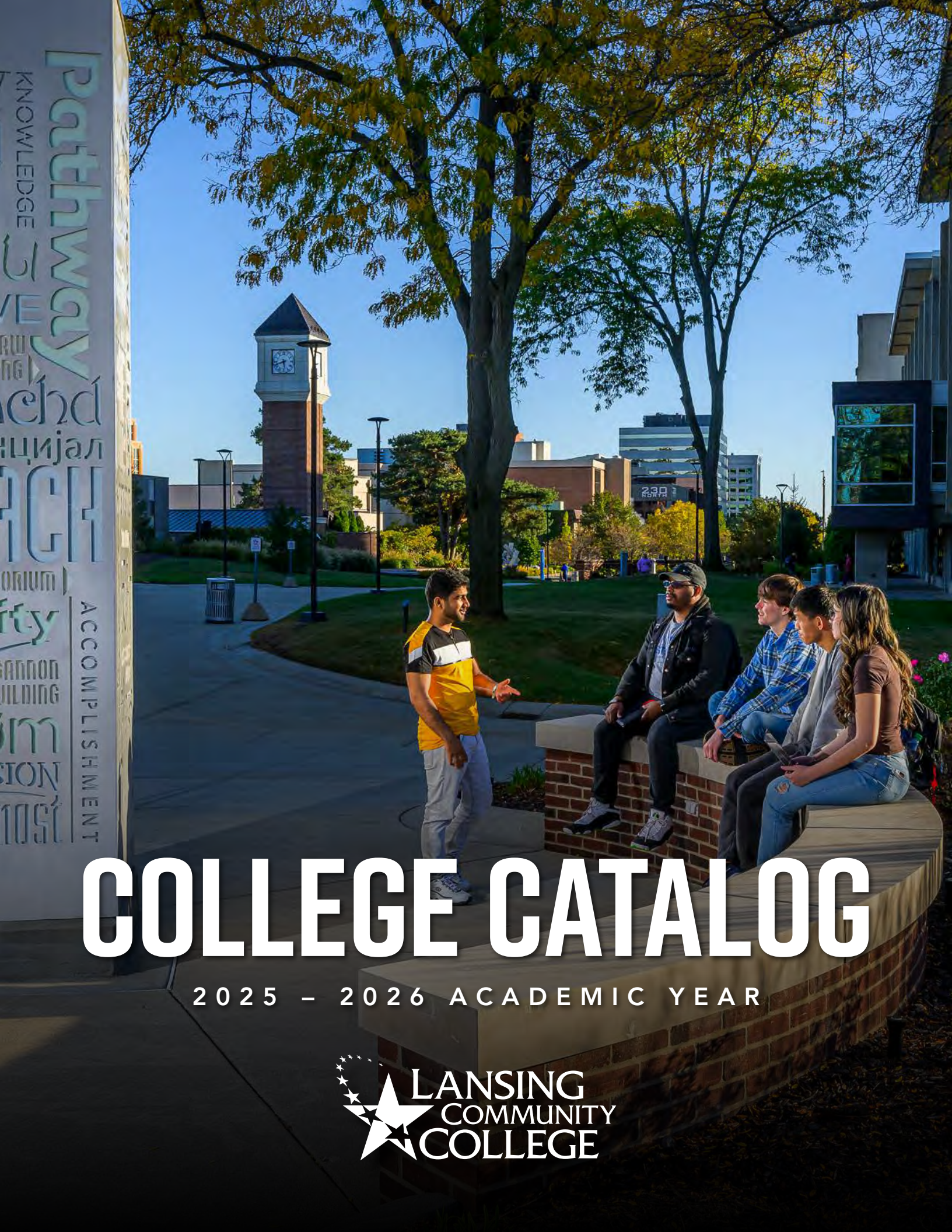




Pathway
KNOWLEDGE
LEARNING
TECHNOLOGY
ACHIEVEMENT
CULTURAL
DIVERSITY
INTEGRITY
ACCOMPLISHMENT
GROWTH
INNOVATION
LEADERSHIP
TEAMWORK
COMMUNICATION
PROBLEM-SOLVING
CRITICAL THINKING
ADAPTABILITY
RESILIENCE
EMOTIONAL INTELLIGENCE
CIVIL DISCOURSE
CIVIL ENGAGEMENT
CIVIL ACTION

COLLEGE CATALOG

2025 – 2026 ACADEMIC YEAR



Message from the President



Hello from LCC:

No matter where you are in life, Lansing Community College is here for you. Whether you're exploring a new career, earning a degree or certificate, transferring credits, or learning a new skill, LCC is a place where you belong.

We know that finding the right path isn't always easy, but you don't have to do it alone. At LCC, you'll have the support of expert faculty, dedicated academic success coaches, and advisors matched to your program of study to help you navigate your journey. With hands-on learning, flexible options, and a welcoming community, we're here to guide you toward your goals—every step of the way.

LCC consistently ranks among the best community colleges in the state and nation, not just because of our programs, but because we truly care. Your success matters to us, and we are dedicated to providing high-quality education in an environment where you feel valued and supported.

Within this Course Catalog, you'll find a variety of opportunities designed to help you take that next step. Whatever your goals, we're ready to help you achieve them.

We're here when you are,

Go Stars!

Steve Robinson

Message from the Provost



Welcome to Lansing Community College! On behalf of our faculty and staff, congratulations on taking the next step in your education.

As an LCC Star, you have access to all our top-ranked programs. Choose from cutting-edge technical fields like robotics and automation or cybersecurity and programming, or take a look at our in-demand health care degrees like nursing, emergency medical services and dental hygiene. You can also build your foundation in math, English, history, sociology and more, in preparation for transfer to a four-year university. Whatever you choose, you can be confident your education will prepare you for your next step.

You have picked a particularly excellent time to attend a community college in Michigan, with several state-funded programs providing free or reduced tuition for students. LCC also offers a multitude of scholarships and grants, helping to put college within your budget. Visit the [Financial Aid](http://lcc.edu/financial-aid) webpage (lcc.edu/financial-aid) to learn more about options for funding your education.

Beyond financial resources, I want to make sure you know about LCC's supportive resources. Of course, you can expect to learn from world-class instructors on the latest equipment and technology. But we also offer a wealth of services to ensure you have what you need to succeed – tutoring, academic advising, career advising, mental health counseling, veterans' resources, laptops for checkout, clubs and events – all of it free to students. Plus, every student is assigned an Academic Success Coach, your personal mentor to make sure you are on track and thriving at LCC.

I hope this catalog is a useful guide as you get started at LCC. If you ever need help or have a question, please reach out to our [StarZone](mailto:lcc-starzone@star.lcc.edu) at 517-483-1200 or lcc-starzone@star.lcc.edu.

Go Stars!

Sincerely,
Sally Welch
Provost

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Updated: 10/02/2025

Disclaimers

This document is for informational purposes only and is not to be construed as a binding offer or contract between the College and the student. This document is subject to change without prior notice. The listing of instructors' names in the Banner class schedule is for informational purposes only and does not constitute a contract of employment or offer to employ any named instructor. Instructional assignments are subject to change in accordance with College policies as needs of the College may require. The College reserves the right to cancel classes. Students enrolled in classes which are canceled will have the opportunity to add another class. Classes may be held in a different room or at an off-campus location if there is insufficient space. This document is intended to be used alongside the Banner registration system, which provides complete information on courses.

Downtown Campus Map



Downtown Campus

Building Locations

505	505 N. Capitol	HHS	Health and Human Services Building
515	515 N. Capitol	HRC	Herrmann and Rogers-Carrier Houses
601	601 N. Washington Square	MB	Mackinaw Building
A&S	Arts and Sciences Building	TLC	Technology and Learning Center
ADM	Administration Building	UC	University Center
AOF	Academic and Office Facility	WCP	Washington Court Place
DRT	Dart Auditorium		
GB	Gannon Building		
HB	Huron Building		

 Available Parking
6, 12, 15, 17, 20, 22, 23, 26, 27
and Gannon Ramp

 Restricted Parking
28 and 29

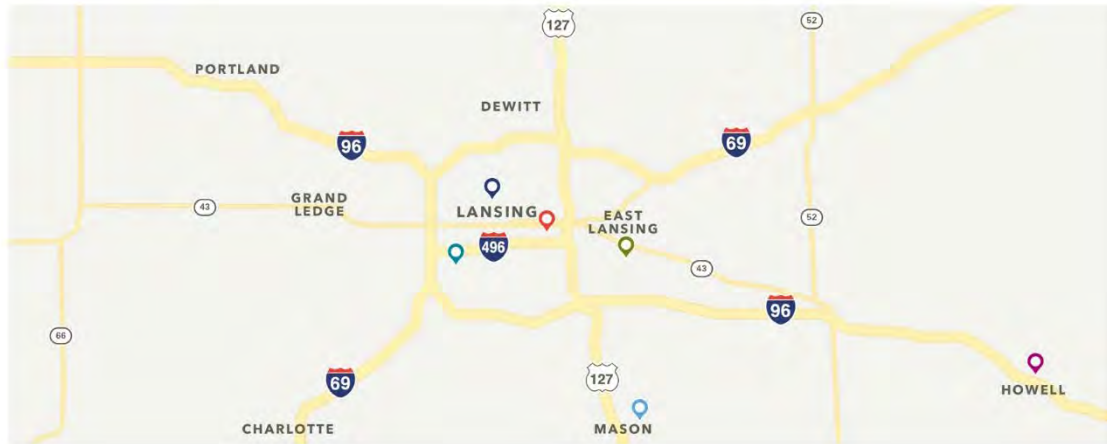


**If having difficulty accessing this map, please
visit [LCC's Downtown Campus webpage](#)**

Other Campus Maps

LCC Locations

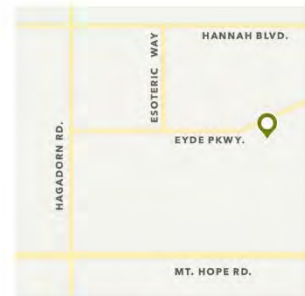
For more information about LCC locations, visit lcc.edu/maps.



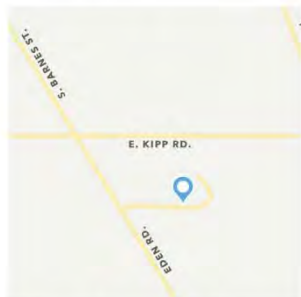
Downtown Campus
411 N. Grand Ave.
Lansing, MI 48933



LCC West Campus
5708 Cornerstone Dr.
Lansing, MI 48917



LCC East
2877 Eyde Parkway
East Lansing, MI 48823



Mason Jewett Field
661 Aviation Dr.
Mason, MI 48854



AIS Construction
3175 Remy Dr.
Lansing, MI 48906

Visit the [LCC Locations](http://lcc.edu/maps) webpage for more information

Lansing Community College Administration & Board

BOARD OF TRUSTEES

Angela L. Mathews, Chair
Terrence L. Frazier, Vice Chair
Robert E. Proctor, Treasurer
LaShunda Thomas, Secretary
Noel Garcia, Jr. Trustee
Hope M. Lovell, Trustee
Chatum Taylor, Trustee

PRESIDENT

Steve Robinson

PROVOST AND SENIOR VP OF

ACADEMIC AFFAIRS

Sally Welch

SENIOR VP OF BUSINESS OPERATIONS

Seleana Samuel

ASSOCIATE VP, EXTERNAL AFFAIRS & DEVELOPMENT & K-12 OPERATIONS

Toni Glasscoe

CHIEF DIVERSITY OFFICER (INTERIM)

Tanya McClain

CHIEF FINANCIAL OFFICER

Donald Wilske

CHIEF INFORMATION OFFICER

Bill Garlick

DEAN, ARTS & SCIENCES

Andrea Hoagland

DEAN, COMMUNITY EDUCATION AND WORKFORCE DEVELOPMENT (INTERIM)

Lee Gardner

DEAN, HEALTH & HUMAN SERVICES

Elizabeth Burger

DEAN, STUDENT AFFAIRS

Ronda Miller

DEAN, TECHNICAL CAREERS

Shon'ta Dwyer

ADMINISTRATIVE SERVICES EXECUTIVE

DIRECTOR

Christopher MacKersie

CENTER FOR DATA SCIENCE EXECUTIVE

DIRECTOR

Matthew Fall

HUMAN RESOURCES EXECUTIVE DIRECTOR

Kristi Dawley

Academic Calendars

Fall 2025 Academic Calendar

Fall Semester 2025 – Registration begins April 28, 2025

Length of Course	Dates
Full Semester (16 Weeks)	August 21 – December 15, 2025
First 8 Weeks	August 21 – October 15, 2025
First 12 Weeks	August 21 – November 12, 2025
Last 15 Weeks	August 28 – December 15, 2025
Last 14 Weeks	September 4 – December 14, 2025
Last 12 Weeks	September 18 – December 14, 2025
Last 8 Weeks	October 16 – December 15, 2025

Pre-Registration Tasks

- [Establish Placement Levels*](#)
- [Attend orientation if you are a new student**](#)
- [Meet with an Academic Advisor](#)
- [Verify and Update Program of Study](#)
- [Search All Course Descriptions and Required Prerequisites](#)
- [Search for Available Course Offerings for Fall Semester](#)
- [Estimate your Tuition Cost](#)
- [Know your Payment Responsibilities and View Options on How to Fund your Education](#)
- [Review Registration and Refund Deadlines](#)
- [Verify and Update Address and Phone](#)
- [Check for Holds](#)
- [Verify Placement Test Scores and Residency in myLCC](#)

*Additional prerequisite and placement information can be found on the [Waiver Information](#) webpage.

New students are **required to attend orientation prior to registering for courses. Orientation is **not** required for transfer or guest students.

Visit the [Registration](#) page for more information.

Number of CREDITS earned at the time of registration	Register during or after	Date
60 or more	8 - 10 a.m.	Monday, April 28, 2025
30 or more	10 - 12 noon	
12 or more	12 - 2 p.m.	
1 or more	2 - 4 p.m.	
Current & Returning Students	After 4 p.m.	Tuesday, April 29, 2025
*New students	After 8 a.m.	

Event	Date
Web registration begins - For more details visit our Registration page.	Monday, April 28, 2025
Orientation available online, required for new students - For more details visit our Orientation page.	TBD
Priority Financial Aid FAFSA file date - For more details visit our Financial Aid page.	TBD
Priority Financial Aid document submit date - For more details visit our Financial Aid page.	TBD
Financial Aid book vouchers begin – For more details visit our Financial Aid Disbursements page.	TBD
Financial Aid supply advances begin – For more details visit our Financial Aid Disbursements page.	TBD
Semester Begins	Thursday, August 21, 2025
End 100% refund tuition and fees - Full semester and first 8 week & 12 week only – See below for all teaching periods.	Wednesday, August 27, 2025
Labor Day – College closed	Monday, September 1, 2025
End 50% refund, tuition & student support fee only - Full semester and first 8 week & 12 week only – See below for all teaching periods.	Wednesday, September 3, 2025
Financial Aid Refunds for Grants , Scholarships	TBD
Last day to change residency	Thursday, October 2, 2025

Event	Date
Last day to change program of study	Thursday, October 2, 2025
Last day to submit Associate Degree/Certificate applications for Fall semester	Saturday, November 15, 2025
Financial Aid refunds for second half of loans begin	TBD
Thanksgiving Holiday - College Closed	Thursday, November 27 through Sunday, November 30, 2025
Semester Ends	Monday, December 15, 2025
End of semester grades posted and available for view	Thursday, December 18, 2025

Fall 2025 - Registration and Schedule Adjustment Dates for All Teaching Periods

		Last Date for 100% Refund TUITION and FEES	Last Date for 50% Refund TUITION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Standard Teaching Periods	[start - end]					
Full Semester	[8/21/25-12/15/25]	8/27	9/3	9/3	9/3	12/1
First 8 weeks	[8/21/25-10/15/25]	8/27	9/3	9/3	9/3	10/8
Last 8 weeks	[10/16/25-12/15/25]	10/22	10/29	10/29	10/29	12/8

		Last Date for 100% Refund TUTION and FEES	Last Date for 50% Refund TUTION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Standard Teaching Periods	[start - end]					
First 12 weeks	[8/21/25-11/12/25]	8/27	9/3	9/3	9/3	11/1
Last 12 weeks	[9/18/25-12/14/25]	9/24	10/1	10/1	10/1	12/4
Last 14 weeks	[9/4/25-12/14/25]	9/10	9/17	9/17	9/17	12/3
Last 15 weeks	[8/28/25-12/15/25]	9/3	9/10	9/10	9/10	12/2

	Last Date for 100% Refund TUTION and FEES	Last Date for 50% Refund TUTION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Variable-Start Courses					
Community and Continuing Education (Non-Credit Courses)	[Section Specific]	Please call 517-483-1415 for assistance.			
Open Entry Courses or Modules	[Based on learning contract]	Day prior to the learning contract start date	Per learning contract	Day prior to the learning contract start date	Day prior to the learning contract start date
					NONE

	Last Date for 100% Refund TUITION and FEES	Last Date for 50% Refund TUITION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online	
Variable-Start Courses						
Less than 8 weeks	[Section Specific]	Day prior to the start of class	N/A	Midpoint of class	Day prior to start of class	NONE
8 weeks or more	[Section Specific]	7 days into the class	14 days into the class	14 days into class	14 days into class	Day prior to the last week

To view on LCC's Website, go to the [Fall 2025 Academic Calendar](#).

Spring 2026 Academic Calendar

Spring Semester 2026 – Registration begins October 13, 2025

Length of Course	Dates
Full Semester (16 Weeks)	January 12 - May 11, 2026
First 8 Weeks	January 12 - March 16, 2026
First 12 Weeks	January 12 - April 13, 2026
Last 15 Weeks	January 20 - May 11, 2026
Last 14 Weeks	January 27 - May 11, 2026
Last 12 Weeks	February 10 - May 11, 2026
Last 8 Weeks	March 17 - May 11, 2026

Pre-Registration Tasks

- [Establish Placement Levels*](#)
- [Attend orientation if you are a new student**](#)
- [Meet with an Academic Advisor](#)
- [Verify and Update Program of Study](#)
- [Search All Course Descriptions and Required Prerequisites](#)
- [Search for Available Course Offerings for Fall Semester](#)
- [Estimate your Tuition Cost](#)
- [Know your Payment Responsibilities and View Options on How to Fund your Education](#)
- [Review Registration and Refund Deadlines](#)
- [Verify and Update Address and Phone](#)
- [Check for Holds](#)
- [Verify Placement Test Scores and Residency in myLCC](#)

*Additional prerequisite and placement information can be found on the [Waiver Information](#) webpage.

New students are **required to attend orientation prior to registering for courses. Transfer and guest students are NOT required to attend orientation.

Visit the [Registration](#) page for more information

Number of CREDITS earned at the time of registration	Register during or after	Date
60 or more	8 - 10 a.m.	Monday, October 13, 2025
30 or more	10 - 12 noon	
12 or more	12 - 2 p.m.	
1 or more	2 - 4 p.m.	
Current & Returning Students	After 4 p.m.	
*New students	After 8 a.m.	Tuesday, October 14, 2025

Event	Date
Web registration begins - For details visit our Registration page.	Monday, October 13, 2025
Orientation available online, required for new students - For more details visit our Orientation page.	TBD
Priority Financial Aid FAFSA file date - For more details visit our Financial Aid page.	TBD
Priority Financial Aid document submit date - For details visit our Financial Aid page.	TBD
Financial Aid supply advances begin - For more details visit our Financial Aid Disbursements page.	TBD
Financial Aid book vouchers begin - For more details visit our Financial Aid Disbursements page.	TBD
Semester Begins	Monday, January 12, 2026
End 100% refund tuition and fees - Full semester and first 8 week and 12 week only - See below for all teaching periods.	Sunday, January 18, 2026
Martin Luther King Jr Day - College Closed	Monday, January 19, 2026
End 50% refund, tuition & student support fee only - Full semester and first 8 week and 12 week only - See below for all teaching periods.	Sunday, January 25, 2026
Financial Aid Refunds for Grants , Scholarships , and first half of loans begin	TBD

Event	Date
Last Day to change residency	Monday, February 23, 2026
Last Day to change program of study	Monday, February 23, 2026
Spring Break - No Classes	Monday, March 9 through Sunday, March 15, 2026
Last day to submit Associate Degree/Certificate applications for Spring semester	Sunday, March 15, 2026
Financial Aid refunds for second half of loans begin	TBD
Semester Ends	Monday, May 11, 2026
End of semester grades posted and available for view	Thursday, May 11, 2026
Commencement - Breslin Student Events Center, MSU Campus, Time: TBA	TBA

Spring 2026 - Registration and Schedule Adjustment Dates for All Teaching Periods

		Last Date for 100% Refund TUITION and FEES	Last Date for 50% Refund TUITION and SUPPORT FEE ONLY	Last Date to Change to Audit/Cred it	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Standard Teaching Periods	[start - end]					
Full Semester	[1/12/26- 5/11/26]	1/18	1/25	1/25	1/25	4/27
First 8 weeks	[1/12/26- 3/17/26]	1/18	1/25	1/25	1/25	3/9
Last 8 weeks	[3/17/26- 5/11/26]	3/23	3/30	3/30	3/30	5/5
First 12 weeks	[1/12/26- 4/13/26]	1/18	1/25	1/25	1/25	4/2
Last 12 weeks	[2/10/26- 5/11/26]	2/16	2/23	2/23	2/23	4/30
Last 14 weeks	[1/27/26- 5/11/26]	2/2	2/9	2/9	2/9	4/30
Last 15 weeks	[1/20/26- 5/11/26]	1/26	2/2	2/2	2/2	4/29

	Last Date for 100% Refund TUITION and FEES	Last Date for 50% Refund TUITION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit		Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Variable-Start Courses						
Community and Continuing Education (Non-Credit Courses)	[Section Specific]	Please call 517-483-1415 for assistance.				
Open Entry Courses or Modules	[Based on learning contract]	Day prior to the learning contract start date	Per learning contract	Day prior to the learning contract start date	Day prior to the learning contract start date	NONE
Less than 8 weeks	[Section Specific]	Day prior to the start of class	N/A	Midpoint of class	Day prior to start of class	NONE
8 weeks or more	[Section Specific]	7 days into the class	14 days prior to the last week of class	14 days into class	14 days into class	Day prior to the last week

To view on LCC's Website, go to the [Spring 2026 Academic Calendar](#).

Summer 2026 Academic Calendar

Summer Semester 2026 – Registration begins March 30, 2026

Length of Course	Dates
Full Semester (12 Weeks)	May 18 – August 10, 2026
First 6 Weeks	May 18 – June 29, 2026
8 Weeks	June 5 – August 2, 2026
Second 6 Weeks	June 30 – August 10, 2026

Pre-Registration Tasks

- [Establish Placement Levels*](#)
- [Attend orientation if you are a new student**](#)
- [Meet with an Academic Advisor](#)
- [Verify and Update Program of Study](#)
- [Search All Course Descriptions and Required Prerequisites](#)
- [Search for Available Course Offerings for Fall Semester](#)
- [Estimate your Tuition Cost](#)
- [Know your Payment Responsibilities and View Options on How to Fund your Education](#)
- [Review Registration and Refund Deadlines](#)
- [Verify and Update Address and Phone](#)
- [Check for Holds](#)
- [Verify Placement Test Scores and Residency in myLCC](#)

*Additional prerequisite and placement information can be found on the [Waiver Information](#) webpage.

New students are **required to attend orientation prior to registering for courses. Transfer and guest students are not required to attend orientation.

Visit the [Registration](#) page for more information

Number of CREDITS earned at the time of registration	Register during or after	Date
60 or more	8 - 10 a.m.	Monday, March 30, 2026
30 or more	10 - 12 noon	
12 or more	12 - 2 p.m.	
1 or more	2 - 4 p.m.	
Current & Returning Students	After 4 p.m.	
*New students	After 8 a.m.	Tuesday, March 31, 2026

Event	Date
Web registration begins - For details visit our Registration page.	Monday, March 30, 2026
Orientation available online, required for new students - For more details visit our Orientation page.	TBD
Priority Financial Aid FAFSA file date - For more details visit our Financial Aid page.	TBD
Priority Financial Aid document submit date - For more details visit our Financial Aid page.	TBD
Financial Aid supply advances begin - For more details visit our Financial Aid Disbursements page.	TBD
Financial Aid book vouchers begin - For more details visit our Financial Aid Disbursements page.	TBD
Semester Begins	Monday, May 18, 2026
Memorial Day - College closed	Saturday, May 23 through Monday, May 25, 2026
End 100% refund tuition and fees - Full semester and first 6 weeks only - See below for all teaching periods.	Sunday, May 24, 2026
End 50% refund, tuition & student support fee only - Full semester and first 6 weeks only - See below for all teaching periods.	Sunday, May 31, 2026
Financial Aid Refunds for Grants , Scholarships , and first half of loans begin	TBD

Event	Date
Juneteenth - College closed	Friday, June 19, 2026
Last day to change residency	Monday, June 29, 2026
Independence Day - College closed	Friday, July 3, 2026 through Sunday, July 5, 2026
Last day to change program of study	Wednesday, July 15, 2026
Last day to submit Associate Degree/Certificate applications for Summer semester	Tuesday, July 15, 2025
Financial Aid refunds for second half of loans begin	TBD
Semester Ends	Monday, August 10, 2026
End of semester grades posted and available for view	Thursday, August 13, 2026

Summer 2026 - Registration and Schedule Adjustment Dates for All Teaching Periods

		Last Date for 100% Refund TUITION and FEES	Last Date for 50% Refund TUITION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Standard Teaching Periods	[start - end]					
Full Semester	[5/18/26- 8/10/26]	5/24	5/31	5/31	5/31	7/30
First 6 weeks	[5/18/26- 6/29/26]	5/24	5/31	5/31	5/31	6/23

		Last Date for 100% Refund TUTION and FEES	Last Date for 50% Refund TUTION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online
Standard Teaching Periods	[start - end]					
8 weeks	[6/30/26-8/10/26]	7/6	7/13	7/13	7/13	8/4
Last 6 weeks	[6/5/26-8/2/26]	6/11	6/18	6/18	6/18	7/27

	Last Date for 100% Refund TUTION and FEES	Last Date for 50% Refund TUTION and SUPPORT FEE ONLY	Last Date to Change to Audit/Credit	Last Date to Drop With No Grade	Last Date to Drop Course with a Record of a W & Last Date to Drop Online	
Variable-Start Courses						
Community and Continuing Education (Non-Credit Courses)	[Section Specific]	Please call 517-483-1415 for assistance.				
Open Entry Courses or Modules	[Based on learning contract]	Day prior to the learning contract start date	Open Entry Courses or Modules	[Based on learning contract]	Day prior to the learning contract start date	Open Entry Courses or Modules
Less than 6 weeks	[Section Specific]	Day prior to the start of class	Less than 6 weeks	[Section Specific]	Day prior to the start of class	Less than 6 weeks
6 weeks or more	[Section Specific]	7 days into class	6 weeks or more	[Section Specific]	7 days into class	6 weeks or more

To view on LCC's website, go to the [Summer 2026 Academic Calendar](#).

About LCC

Vision

Serving the needs of our diverse community through relevant educational and training opportunities.

Mission

Lansing Community College provides accessible, high-quality education through relevant and innovative instructional methods to equip and empower a diverse community of learners to complete their educational goals while becoming engaged global citizens.

Values

These embody our culture of empowerment and create the standards for our team efforts toward each other and every student we serve:

Integrity: We believe that integrity is our foundation, guiding us to act honestly and ethically, treating everyone with respect and doing the right thing even when no one is watching.

Learning Focused: We are dedicated to a learning-centric culture that embraces continuous education as a vital, shared journey for students, staff, faculty, and the broader community. Every member of our community is both a learner and a contributor to the collective wisdom that shapes our future.

Relevant: We continuously adapt to the evolving needs of the community and workforce, ensuring our curriculum and approach remain relevant and responsive while meeting the changing needs of our students.

Supportive Environment: We foster a diverse, equitable, and inclusive environment, ensuring accessibility and tailored support for the unique needs of our entire community. By actively fostering an atmosphere of care and understanding, we strive to create a community where everyone feels empowered and supported.

Transformative: We offer a transformative educational experience, combining academic excellence with a forward-thinking vision that inspires innovation and positive change.

A History of LCC

Lansing Community College is one of the largest community colleges in Michigan, serving more than 13,000 students each year. It offers a multitude of associate degrees and certificate programs in addition to career and workforce development and personal enrichment options. The college was founded in 1957 and has since grown from its flagship campus in downtown Lansing to include locations in Delta Township, East Lansing, and Mason. LCC is consistently

named one of Michigan's best community colleges, and students enjoy unsurpassed instruction, beautiful facilities, cutting-edge technology and comprehensive support services to help them succeed.

Accreditation

Lansing Community College is accredited by the Higher Learning Commission (HLC), a regional accreditation agency that accredits degree-granting institutions of higher education located in the 19-state North Central region of the United States. Regional accreditation validates the quality of an institution as a whole and evaluates multiple aspects of an institution, including its academic offerings, governance and administration, mission, finances, and resources. Institutions that the HLC accredits are evaluated against the Commission's [Criteria for Accreditation](#), a set of standards that must be met in order for the institution to receive and/or maintain accredited status. The HLC's Criteria for Accreditation reflect a set of [guiding values](#). Accreditation is largely a peer-based review and evaluation process. HLC decision-making bodies are comprised of institutional representation from colleges and universities accredited by the Commission; public members are also sometimes involved.

Board of Trustees

LCC is governed by a Board of Trustees, consisting of seven members, elected at large in the community college district on a nonpartisan basis. Members are elected to serve 6-year terms.

Board Policies

Students are responsible for adhering to all applicable Board Policies. To view Board Policies, go to the [Board of Trustees' Policies](#) webpage.

Program Accreditations

The following occupational programs are accredited, approved, certified, licensed, or regulated by the association, agency, or governmental agency identified. For the most current list, please visit our [Program Accreditation](#) website.

Program Area	Accrediting Agency	Date of Next Review	Status
Automotive Technology	National Automotive Technicians Education Foundation (NATEF) 1503 Edwards Ferry Rd., NE Suite 401 Leesburg, VA 20176	12/01/2028	Accredited

Program Area	Accrediting Agency	Date of Next Review	Status
<u>Aviation Technology</u>	<u>Federal Aviation Administration (FAA)</u> Federal Aviation Administration 800 Independence Ave, SW Washington, DC 20591	Quarterly	Certified
<u>Child Development & Early Education</u>	<u>National Association for Education of Young Children (NAEYC)</u> 1401 H St. NW, Suite 600 Washington, D.C. 20005	03/2032	Accredited
<u>Computer Information Technologies – Computer Networking Technology</u>	<u>National Security Agency</u> 9800 Savage Rd., Suite 6272 Ft. Meade, MD 20755-6000 <u>National Centers of Academic Excellence in Cyber Defense (CAE-CD)</u> 9800 Savage Road Ft. Meade, MD 20755-6804	2024 <i>(in review)</i> 2029	Designated Designated
<u>Construction Management</u>	<u>Accreditation Council for Construction Education (ACCE)</u> 300 Decker Drive, Suite 330 Irving, TX 75062	07/2026	Accredited
<u>Criminal Justice - Correctional Officer Certificate</u>	<u>Michigan Department of Corrections (MDC)</u> Grandview Plaza 206 E. Michigan Ave. P.O. Box 30003 Lansing, MI 48909	Annual Report 6/30/2025	Certified
<u>Criminal Justice - Local Corrections Officer Academy</u>	<u>Michigan Sheriffs Coordinating & Training Council</u> 600 S. Capital Ave. Lansing, MI 48933	Annual Report 7/1/2025	Certified
<u>Dental Hygiene</u>	<u>Commission on Dental Accreditation (CODA)</u>	2025	Accredited (Approval)

Program Area	Accrediting Agency	Date of Next Review	Status
	211 East Chicago Ave. Chicago, IL 60611		without Reporting Requirements)
Diagnostic Medical Sonography	Commission on Accreditation of Allied Health Education Program (JRCEDMS-CAAHEP) 9355 - 113th St. N, #7709 Seminole, FL 33775	2027	Accredited
Emergency Medical Services	Michigan Department of Health & Human Services, Bureau of Emergency Preparedness, EMS, and Systems of Care (MDHHS-BEPESoC), Division of EMS and Systems of Care 333 S. Grand Ave P.O. Box 30195 Lansing, Michigan 48909	07/2027	Approved
EMS/Paramedic	Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation of the Committee on Accreditation of Educational Programs for Emergency Medical Services Professionals (CoAEMSP) To contact CoAEMSP: 8301 Lakeview Parkway Suite 111-312 Rowlett, TX 75088 Commission on Accreditation of Allied Health Programs (CAAHEP) 9355 - 113th St. N, #7709 Seminole, FL 33775	2025	Accredited

Program Area	Accrediting Agency	Date of Next Review	Status
	Michigan Department of Health & Human Services, Bureau of Emergency Preparedness, EMS, and Systems of Care (MDHHS-BEPESoC), Division of EMS and Systems of Care 333 S. Grand Ave P.O. Box 30195 Lansing, Michigan 48909	2025	Approved
Fire Academy	Michigan Firefighters Training Council (MFFTC) 3101 Technology Blvd, Suite H Lansing, MI 48910	Annual Report 12/30/2025	Approved Training
Heavy Equipment Repair Technician	Associated Equipment Distribution (AED) Foundation 650 E Algonquin Rd., Ste 305 Schaumburg, IL 60173	2029	Accredited
Legal Studies	American Bar Association (ABA) Chicago Headquarters American Bar Association 321 North Clark Street Chicago, IL 60654 Washington DC Office American Bar Association 1050 Connecticut Ave. N.W. Suite 400 Washington, D.C. 20036	08/2026	Approved

Program Area	Accrediting Agency	Date of Next Review	Status
<u>Massage Therapy</u>	<u>Commission on Massage Therapy Accreditation (COMTA)</u> 900 Commonwealth Place Suite 200-331 Virginia Beach, VA 23464	2031	Accredited
<u>Neurodiagnostic Technology through the EPiC Consortium</u>	<u>Commission on Accreditation of Allied Health Education Programs (CAAHEP)</u> 9355 - 113th St. N, #7709 Seminole, FL 33775	2031	Accredited
<u>Nursing</u>	<u>Society for Simulation in Healthcare (SSH) Accreditation</u> 2021 L Street, NW Suite 400 Washington, DC 20036	2029	Accredited
	<u>Accreditation Commission for Education in Nursing (ACEN)</u> 3390 Peachtree Road NE, Suite 1400 Atlanta, Georgia 30326	2026	Accredited
<u>Police Academy</u>	<u>Michigan Commission on Law Enforcement Standards (MCOLES)</u> 927 Centennial Way Lansing, Michigan 48909	Annual Report 12/31/2025	Approved
<u>Radiologic Technology</u>	<u>Joint Review Committee on Education in Radiologic Technology (JRCERT)</u> 20 N. Wacker Dr, Ste. 2850 Chicago, IL 60606-3182	2029	Accredited

Program Area	Accrediting Agency	Date of Next Review	Status
Surgical Technology	Commission on Accreditation of Allied Health Education Programs (CAAHEP) 25400 US Highway 19 North Suite 158 Clearwater, FL 33763	2029	Accredited

To review LCC's most up-to-date accreditations, go to the [Program Accreditation](#) webpage. To review LCC's accreditation documents, contact the Academic Affairs Office at 517-483-1618 or via [email](#).

Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA): FERPA is a federal law that sets forth requirements regarding the privacy of student education records. FERPA governs the release of and access to education records that are maintained by an educational institution.

LCC is prohibited from sharing student education records with parents, spouse, guardians, or any other third party without a release (consent) on file. Students may submit a Release of Information (FERPA) request form directly to the Registrar's Office in order to authorize the College to share education records with named designee(s). This form can also be used to cancel, add, remove, or change the designee(s) on the release. Paper copies are available by visiting the StarZone or by accessing the Registrar's Office public shared drive.

When a student turns 18 years old, or enters a postsecondary institution at any age, the rights under FERPA transfer from the parents to the student. The FERPA statute is found at 20 U.S.C § 1232g, and the FERPA regulations are found at 34 CFR Part 99 on the U.S. Department of Education FERPA webpage.

LCC's Registrar's Office communicates students' rights under FERPA with all registered students through their LCC student email every semester.

Directory Information: Directory information is information contained in the education records of a student that would not generally be considered harmful or an invasion of privacy if disclosed.

LCC defines directory information as the following:

- Name of student
- Dates of attendance
- Enrollment status
- Awards, degrees, or certificates received

- Participation in officially recognized activities
- Sport, weight, and height of members of an athletic team
- Previous educational agency or institution attended
- LCC email address

Under the provisions of the FERPA of 1974, as Amended, students have the right to withhold the disclosure of the Directory Information. To request to prevent disclosure, students must submit a [Request to Prevent Disclosure of Directory Information](#). Students may submit this form at any time. The form remains in effect until the student provides a written release to the [Registrar's Office](#) requesting the form to be canceled.

Behavioral Intervention Team (BIT)

The Behavioral Intervention Team (BIT) works to promote the sharing of information internally when significant circumstances pertaining to the health and safety of LCC's students arise. Members of the team take in and assess information, take action when necessary, and monitor details about behavioral concerns noted on campus. The team links students of concern to appropriate services either on or off campus while balancing the individual's rights with the rights of all others for safety.

Title IX Resources

LCC policies prohibit sexual harassment, sexual discrimination, and sexual misconduct in employment, educational programs, or activities. The Prohibited Sex or Gender Based Discrimination, Harassment, and Sexual Misconduct Policy can be found on the LCC [Title IX and Sexual Misconduct Resources](#) webpage along with additional resources and forms to file a complaint. Students, employees, and visitors are encouraged to report any allegations of sexual harassment, sexual discrimination, or sexual misconduct to:

TO REPORT A STUDENT[Student Complaint Form](#)

JR Beauboeuf
 Director of Risk
 Management, Equal
 Opportunity Officer, &
 Employee Title IX
 Coordinator
 309 N. Washington Square
 Lansing, MI 48933
 517-483-1730
[Email](#)

Greg Lattig
 Athletic Director/
 Deputy Student Title IX
 Coordinator
 Gannon Building
 411 N. Grand Ave.
 Lansing, MI 48933
 517-483-1622
[Email](#)

TO REPORT AN EMPLOYEE[Employee Complaint Form](#)

JR Beauboeuf
 Director of Risk
 Management, Equal
 Opportunity Officer, &
 Employee Title IX
 Coordinator
 309 N. Washington Square
 Lansing, MI 48933
 517-483-1730
[Email](#)

TO FILE AN EEO COMPLAINT

(Harassment based on race,
 religion, disability, or other
 non-gender-based issues)

JR Beauboeuf
 Director of Risk Management,
 Equal Opportunity Officer, &
 Employee Title IX Coordinator

 309 N. Washington Square
 Lansing, MI 48933
 517-483-1730
[Email](#)

Equal Opportunity & Nondiscrimination, Harassment & Retaliation

LCC provides equal opportunity for all persons and prohibits discriminatory practices based on race, color, sex, age, religion, national origin, creed, ancestry, height, weight, sexual orientation, gender identity, gender expression, disability, familial status, marital status, pregnancy, pregnancy-related conditions, military status, veteran's status, or any other factor as protected by law, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position or participate in educational programs, courses, services or activities offered by the College. For more information, please visit the [Title IX and Sexual Misconduct Resources](#) webpage.

The College prohibits retaliation or reprisals against any individual because they have filed a complaint or report, participated in an investigation, or otherwise opposed unlawful discrimination.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

Equal Opportunity Officer
Washington Court Place
309 N. Washington Square
Lansing, MI 48933
517-483-1730

Employee Coordinator 504/ADA
Administration Building
610 N. Capitol Ave.
Lansing, MI 48933
517-483-1875

J.R. Beauboeuf
Director of Risk Management, Equal
Opportunity Officer, & Employee Title IX
Coordinator
309 N. Washington Square
Lansing, MI 48933
517-483-1730
[Email](#)

Greg Lattig
Athletic Director/
Deputy Student Title IX Coordinator
Gannon Building
411 N. Grand Ave.
Lansing, MI 48933
517-483-1622
[Email](#)

Student Coordinator 504/ADA
Gannon Building
411 N. Grand Ave.
Lansing, MI 48933
517-483-1885

Consumer Information Notices and Disclosures

The Higher Education Act of 1965 (HEA), as amended, requires that postsecondary institutions participating in federal student aid programs make certain disclosures. The [Consumer Information](#) page discloses the following information to enrolled and prospective students, employees, parents, and the public.

- Institutional and Student Information
- Financial Information
- Student Outcomes
- Health and Safety Information

For any questions or a paper copy of a disclosure, please contact the Office of Compliance at 517-483-5298 or via [email](#).

Annual Security Report

The Jeanne Clery Campus Safety Act (“Clery Act”) requires colleges and universities that receive federal funding to disseminate a public [Annual Security Report \(ASR\)](#) to all current students and employees and make its availability known to prospective students and employees. The purpose of this report is to provide an overview of the College’s security resources, policies and procedures.

The ASR is published annually on or before October 1st and contains statistics for the previous three years concerning crimes that occurred on campus; on non-campus buildings; on properties owned, rented, leased, or controlled by the College; and on public property within or adjacent to campuses of the College. The report includes College policy statements concerning campus security, crime prevention, reporting of crimes; timely warnings; emergency response and evacuation; and alcohol, drug use, and sexual offenses.

The Annual Security report is available on the [Police Department webpage](#). A paper copy of the ASR is available upon request by contacting LCC Police Department office at 517-483-1800 or in person at 411 N. Grand Avenue, Gannon Building, Room 2110, Lansing, MI 48933.

Drug and Alcohol Abuse Prevention Program (DAAPP)

In compliance with the Drug-Free Schools and Communities Act the College maintains a [DAAPP](#) that is distributed annually and on an ongoing basis to all employees and students. The DAAPP contains descriptions of the health risks of drug and alcohol abuse; drug and alcohol counseling, treatment, and rehabilitation programs; and the legal and College sanctions for violations of College policies, local, state or federal laws relating to illicit drugs and alcohol. A biennial review of the DAAPP is also conducted. A printed copy of the DAAPP is available upon request by contacting the LCC Police Department at 517-483-1800 or in person at 411 N. Grand Avenue, Gannon Building, Room 2110, Lansing, MI 48933.

State Authorization

LCC offers distance education learning opportunities for students and is an institutional participant in the National Council for State Authorization Reciprocity Agreements (NC-SARA), a voluntary and regional method to oversee distance education. The [State Authorization](#) webpage discloses the following information to enrolled and prospective students, employees, parents, and the public.

- Accreditation Information
- Student Compliant Information
- Professional Licensure and Certification
- Refund Policy
- Adverse Actions
- Approved States & Territories
- Location & Residency Status
- International Students

Student General Rules and Guidelines and Code of Conduct

The College recognizes the value and importance of a safe and orderly learning environment that encourages honesty, integrity, and ethical conduct conducive to academic success, personal growth, and responsible social behavior. The Student General Rules and Guidelines and Student Code of Conduct ensure the protection of student rights and the health and safety of the College community, as well as aid in efficiently operating College programs. It is the responsibility of each student to know and abide by the Student General Rules and Guidelines and Student Code of Conduct.

The College has established procedures for reporting and addressing alleged violations of the [Student General Rules and Guidelines](#) and Student Code of Conduct in accordance with the College's [Ethics and Standards of Conduct for Students Policy](#). These procedures are designed to provide a fair, consistent, and reliable process for all parties.

The Student General Rules and Guidelines and Student Code of Conduct apply from the time of admission to the College and continue as long as the student remains enrolled at the College. They are also applicable to a student's conduct even if the student withdraws from school while a disciplinary matter is pending.

The Office of Student Compliance is an integral part of the positive educational environment at the College, and is responsible for upholding the Student General Rules and Guidelines and Student Code of Conduct. The office supports the mission of the College by responding to and resolving situations in which the behavioral choices of students are negatively impacting the College community, or other students, including themselves.

Access to College Buildings

StarCards are required to enter all LCC buildings on Downtown Campus, West Campus, LCC East and Aviation Maintenance Technology Center.

Access to College buildings after normal hours of operation is restricted. Contact LCC Police Department at 517-483-1800 for access outside of normal hours of operation.

Animals

For the protection, health, and safety of the members of the College community, animals are not permitted on campus. This provision excludes service animals. For additional information please refer to the [Service Animal Webpage](#).

Cell Phones

The use of cell phones during class is at the discretion of the instructor.

Drugs and Alcohol

LCC complies with the Drug-Free Workplace Act and the Drug-Free Schools and Community Act. The College is committed to providing a campus environment free of prohibited drug and alcohol use and intoxication, consistent with federal, state, and local law, and College policy.

See the [Drug and Alcohol Policy](#), Section 4.040, for details.

Examinations

Students are required to take examinations at scheduled appointed time and place at the discretion of instructors. Generally, examinations are given during the regularly scheduled class period with a final exam during the last week of the semester. Please see course syllabi for details.

Field Trips and College Sponsored Events and Activities

Students participating in field trips and other College-sponsored events and activities must abide by all College policies.

LCC Email Account

Students are responsible for checking their LCC-assigned student email accounts on a regular basis. Official notifications and information are routinely sent to student email accounts. Students who use other email accounts should make sure they are monitoring their LCC email accounts as well.

Student Organizations

Certain student clubs and organizations are registered at the College. For information about certain clubs and organizations or how to start a student club or organization please contact the Student Life Office. For more information, go to the LCC [Clubs & Organizations](#) webpage.

Smoking

LCC is a smoke-free campus. See the [Smoking Policy](#), Section 6.110, for details.

Technology Resources - Acceptable Use

The LCC Acceptable Use Policy describes guidelines for the use of the College's technology resources and use of College-wide data. Use of College-owned technology resources is a privilege extended by the College to students as a tool to promote the College's mission and to enhance technological/computer literacy. College computer labs and devices/equipment for checkout from the Library and Information Technology Services are available on campus for students to complete their course work. Students are expected to follow the rules for any lab or the department which houses the computer they use.

This policy applies to all users of College technology resources and data, including those using the College's network via a personally owned device. Violations of this policy may result in

loss of computer privileges and/or disciplinary action under the Student Code of Conduct. In addition, the user may be subject to civil and criminal liabilities. See the [Acceptable Use Policy, LCC Board Policy 6.010](#), for details.

Student Code of Conduct

In addition to being familiar with the Student General Rules and Guidelines, all students are responsible for knowledge of and adherence to the [Student Code of Conduct](#).

Campus Departments, Locations, and Contact & General Information

Academic Success Coaches

Academic Success Coaches are responsible for ensuring that students receive persistent, proactive, individualized mentoring, and academic coaching and support throughout their enrollment at LCC. For more information please visit the [Academic Success Coach webpage](#) or contact them via [email](#). The Academic Success Coach program is located in the Gannon building in the Success Coach Lounge – room 2202. Academic Success Coaches have offices at all campus locations and are available to meet virtually, over the phone, and in-person.

What We Do:

Academic Success Coaches meet with students. Students are encouraged to contact an Academic Success Coach. Students may also be referred to an academic success coach through the Academic Alert process. During the meetings Academic Success Coaches will learn about the student's experiences at LCC, identify obstacles that may be barriers to their academic success, and help strategize solutions and next steps. Some of the topics discussed may include:

- Study Strategies - how to effectively study, take notes, and keep organized
- Time Management - how to balance work, school, and other responsibilities
- Self-Awareness - helping students identify their strengths, purpose, and goals
- Campus Engagement and Resources - identifying opportunities and resources on campus and helping students make those connections

Academic Advising

The Academic Advising team supports and guides students during their academic journey here at LCC, whether it's to achieve a degree or certificate at LCC or transfer to a four-year university. A few of the many topics that the Advising team can assist with include:

- **Choosing the Right Major:** Advisors help you pick a program that fits your career goals.
- **Course Planning and Course MAP (My Academic Pathway):** Advisors guide you on the right classes to take and in the right order.
- **Transferring to a Four-Year School:** Advisors help you with the transfer process and ensure your credits count.
- **Graduation Check:** Advisors can help ensure you're meeting all requirements for graduation.
- **Changing Majors:** Want to change your major? You can do this at any time here. It's also a good idea to talk with an Academic Advisor about how this change may impact your courses.
- **Michigan Transfer Agreement (MTA):** Advisors make sure you meet transfer requirements for Michigan schools.

Academic Advisors are available virtually, in-person, and by phone to meet your advising needs. For more information, please visit the [LCC Academic Advising](#) webpage. Schedule an appointment [here](#), or call 517-483-1200, and select option 4.

Admission to the College

LCC is an open-admissions college. Prospective students must complete an admissions application before registering for classes. Please visit the [Pre-Orientation Checklist](#) for more information. For a paper application, call the Registrar's Office. All accepted applicants will receive a letter confirming their admission to LCC. Applicants who do not receive a letter within two weeks of applying should call the Registrar's office or [email](#). For further information, call 517-483-1200, option 2. Certain programs, however, require students to complete a selective admissions application. Please see the [Selective Admissions webpage](#) for additional information.

Admissions Team

The Admissions department participates in college fairs, classroom presentations, application and scholarship workshops, and more. They meet with future students and families to answer questions and assist with the admissions process. The team also regularly hosts groups on campus for tours and informational sessions.

To schedule an appointment, or to view available orientation sessions, please go to the [Admissions Team](#) webpage, contact us via [email](#), or call 517-483-1200.

Arts & Sciences Division

The Arts & Sciences (A&S) Division offers Math, Science, English, Humanities, Social Sciences, Business, Communication, and the Arts courses as well as programs that prepare students to successfully complete junior and senior university-level courses upon transfer.

The Arts & Sciences Division courses build a foundation for both transfer students and applied certificate and degree students that allows them to fulfill their educational goals. For further information, go to the [Arts and Sciences Division](#) webpage.

Athletics

LCC Athletic Department offers student-athletes the opportunity to further their educational plans and enhance their athletic experience by continuing to recruit and provide equal opportunities for all student-athletes while promoting pride, respect, and integrity throughout our athletic programs. LCC Athletics competes as a Division II member of the National Junior College Athletic Association comprised of over 500 institutions across the United States competing at the two-year institution level. LCC offers nine varsity sports: Men's and Women's Cross Country, Volleyball, Men's and Women's Basketball, Softball, Baseball, Women's and Men's Outdoor Track and Field. LCC offers athletic scholarships for all nine sports, helping cover the costs of student-athletes' tuition and course-related fees. For more

information regarding Athletics, go to the [LCC Stars](#) webpage or call the Athletics Office at 517-483-1622.

Business & Community Institute – Specialized Workforce Training

The Business and Community Institute offers customized training, coaching, and consulting to area businesses, non-profit organizations, and public entities across our six-county region. The solutions we provide help organizations increase productivity, improve employee retention, build effective communication, create operational efficiencies, develop stronger leadership, and strengthen their workforce. For more information, please visit the [Business & Community Institute](#) website, call the Business and Community Institute at 517-483-1857, or [email](#).

Campus Locations

LCC community has multiple locations in the mid-Michigan area. Each provides learning spaces and staff dedicated to your academic success and positive college experience.

Downtown Campus

411 N. Grand Avenue, Lansing, MI 48933

LCC's downtown campus is the main campus.

([webpage](#))

West Campus

5708 Cornerstone Drive, Lansing, MI 48917

Located in Delta Township, West Campus is home to the Technical Careers and Community Education and Workforce Development divisions of LCC.

([webpage](#))

The 290,536-square-foot facility features the [Center for Manufacturing Excellence](#), [Mid-Michigan Police Academy](#), Fire Academy, Regional Fire Training Center, Corrections Academy, Computer Information Technology, Geospatial Science, Unmanned Aerial Systems (Drones), Cybersecurity, Automotive Technology, Building Construction, Electrical Technology, Lineworker, Legal Studies, HVAC, in-demand skilled trades, and much more.

LCC East

2827 Eyde Parkway, East Lansing, MI 48823

Located in East Lansing, LCC East offers convenience for those who live in Haslett, Okemos, East Lansing, and Williamston areas, with 12 classrooms, excellent instructors, free parking and a variety of academic and student support services. The location provides extensive support to guest students from other educational institutions looking to supplement their course schedule. For more information, please visit the [LCC East](#) webpage, [email](#) or contact us at 517-483-1860 for assistance.

Aviation Maintenance Technology Center

Mason Jewett Field, 661 Aviation Drive, Mason, MI 48854

Situated at Jewett Airfield in Mason, the Aviation Maintenance Technology Center stands as a pinnacle of excellence. Esteemed by industry professionals, educators, and the local community alike, this facility is hailed as the premier destination for aviation maintenance training in the Midwest.

At LCC, students benefit from access to cutting-edge equipment and technology. Through hands-on experience with a variety of aircraft, including large and small planes, turbine and jet engines, and advanced composite materials, students receive comprehensive training that meets industry standards.

Equipped with classrooms, a computer lab, and individual bay workstations, the facility facilitates both personalized one-on-one instruction and group learning. This robust infrastructure ensures that students receive a well-rounded education tailored to their individual needs and prepares them for success in the aviation maintenance field.

Job Training Center (JTC) at West Campus, Community Education & Workforce Development Offices – LCC West Campus, Rm. M105

The Job Training Center strives to prepare community members for in-demand, entry-level employment by offering short-term training and career-focused programs necessary for future career success and improved quality of life. Specifically, the Job Training Center helps unemployed, underemployed, and at-risk populations in our region to obtain marketable skills and credentials as they head out into the workforce or continue their academic education.

Course offerings run eight to ten weeks. These shortened and condensed programs are ideal for those who cannot accommodate a traditional college schedule. For more information, visit the [JTC](#) website, [email](#) or call 517-483-1857 for more information.

AIS Training Center

3600 North Grand River, Lansing, MI 48906

LCC trains its [Heavy Equipment Repair](#) students at the best heavy machinery training facility in Lansing, the AIS Training Center. LCC faculty offer “real world” hands-on training using the latest machinery and technology in machine operation, heavy equipment maintenance and technology, and safety.

Michigan State University

426 Auditorium Road, East Lansing, MI 48824

Veterinary Nursing is offered through a joint agreement between LCC and Michigan State University (MSU), with major courses taught by MSU and General Education courses taught by LCC.

Agricultural Technology is offered through a joint agreement between LCC and the Michigan State University Institute of Agricultural Technology (IAT), with major courses taught by MSU and General Education courses taught by LCC.

Mid Michigan College

1375 S. Clare Avenue, Harrison, MI 48625

The Magnetic Resonance Imaging (MRI) program is offered through a partnership with other Community Colleges as part of the Michigan Educational Programs in Collaboration (EPIC) consortium. For additional information, go to the [Michigan Workforce Training and Education Collaborative MRI website](#).

Capital Area Michigan Works

Capital Area Michigan Works! (CAMW!) is a network of resources available to LCC students. CAMW! partners with businesses to develop recruiting and retention strategies and partners with job seekers to enhance education and career opportunities. For more information, visit the [CAMW!](#) website or call 517-492-5580 for assistance.

Career and Employment Services

Career and Employment Services (CES) assists students and alumni with exploring career options, developing employability skills, learning job search strategies, and connecting with employers. Through one-on-one appointments, class presentations, job fairs, and other events, CES helps individuals make informed career choices, develop résumés and cover letters, prepare for interviews, pursue internships, and navigate the job search. Visit us at the Career Center, Gannon Building 2nd floor room 2219, to get started.

For more information, please visit the [Career & Employment Services](#) webpage, call 517-483-1172, or [email](#).

Childcare Grants

The Childcare Grant is designed to provide eligible custodial parents with childcare funding assistance while the parent is attending LCC. The grants are based on specific criteria and provide partial payment of licensed childcare services for the recipient. For more information, please contact us at 517-483-1199 or by [email](#) (adultrc@star.lcc.edu).

Computer Labs

Aviation Technology Center

PCs and a printer are available for aviation student use. Aviation students also have access to laptops that can be signed out each day.

Downtown Campus

Student-use computers are available on the 2nd and 3rd floor of TLC's open computer lab. The open computer lab is located within the TLC building's Library and Learning Commons. In addition to PCs and Macs, this space includes laptops that students can check out for the semester and a technology lab. The Technology Lab includes 3D printers, regular and poster printers, virtual reality machines, and audio recording equipment.

LCC East

PC's and a printer are available for student use.

West Campus

Computers and printers are available for student-use in room M123. In addition to student-use computers, the West Campus Technology and Learning Center has a limited number of laptops that can be checked out for the semester.

Community Education and Workforce Development (CEWD) Division

CEWD is collaborative and supports the institutional mission. Community Education and Workforce Development acts as a gateway to success for traditional and non-traditional students. For more information, please contact 517-483-1857.

Continuing Education

The Continuing Education program at LCC offers non-credit career and workforce development training, to improve professional and occupational skills. LCC offers both self-paced and accelerated certificate and non-credit courses for students to obtain or maintain licensure. For more information, please visit the [Continuing Education](#) webpage, [email](#) or call 517-483-1857.

Lifelong Learning (Adult Enrichment and Youth Program)

LCC provides access to educational opportunities that connect LCC's strengths with the community's needs. Courses include non-credit offerings in a wide spectrum of disciplines.

The [Youth Program](#) offers youth summer camps, after-school classes, sports camps and online classes for children in elementary, middle, and high school. These summer camps and classes provide fun ways for kids to study topics in Science, Technology, Engineering, Arts and Mathematics (STEAM), leadership and team dynamics. Additional information can be found at [Adult Enrichment](#) and/or the [Youth Program](#) webpage(s) or contact the Lifelong Learning Office by [email](#) or call 517-483-1415.

Center for Student Support

LCC's Center for Student Support facilitates student success by providing comprehensive support services to help students achieve their personal and academic goals. The center includes the Adult Resource Center, Counseling Services, Fostering Stars, the Center for Student Access, and the Office of Student Compliance.

Adult Resource Center (ARC)

The [Adult Resource Center](#) (ARC) provides assistance to adult students returning to college and those who have children and need childcare services to attend classes at LCC. You can visit the ARC webpage to learn more about the scholarships available for childcare and tuition for occupational students. To schedule an appointment, please call 517-483-1199. Click here to [request an appointment online](#).

Counseling Services

Counseling services are available to all students needing professional guidance to help overcome personal issues and achieve academic success. Counseling is provided by licensed, professional counselors and sessions are confidential and free of charge. You can visit the [Counseling Services webpage](#) for more information. To schedule an appointment, please call 517-483-1924 or schedule an [appointment online](#).

Fostering S.T.A.R.S.

The Fostering S.T.A.R.S. Program provides a supportive network for students currently in or aging out of the foster care system. Students involved in this program are able to connect with an independent life skills coach who is trained in providing guidance, empowerment and improvement in all areas of life. A life skills coach seeks to empower others by helping them make, meet and exceed goals. For more information, go to the [Fostering S.T.A.R.S.](#) webpage, visit the StarZone in the Gannon Building, or call 517-483-1924.

Center for Student Access

The Center for Student Access (CSA) consults with students, faculty, and staff to support an accessible college. LCC encourages and welcomes all students with disabilities to meet with an Access Consultant. A meeting with an Access Consultant is required to receive accommodations.

To request an appointment please call 517-483-5323 or [email](#). View the [Center for Student Access](#) webpage.

The Office of Student Compliance

The Office of Student Compliance (OSC) is responsible for enforcing the Student Code of Conduct and General Rules and Guidelines, Student Title IX and Sexual Misconduct Complaints, and the LCC Behavioral Intervention Team (BIT).

Additional information can be found at:

- [Student Code of Conduct](#)
- [Title IX and Sexual Misconduct](#)
- [Behavioral Intervention Team \(BIT\)](#)

Student Life and Ombudsperson

The Student Life Office exists to enhance the overall educational experiences and success of students through the development of, exposure to, and engagement in social, academic, intellectual, cultural, recreational, campus and community service, and leadership development. For more information, go to the [Student Life](#) webpage or contact via [email](#).

Students can visit the Office of Student Compliance in the Gannon Building, Room 1204, or contact the office by calling 517-483-1261 or via [email](#).

Degree Works

Degree Works is a computerized guide to help students and their advisor to monitor and plan their pathway toward completion of their certificate(s) and/or degree(s) by evaluating the completed coursework against the requirements of the program. Students and advisors can run “What-If” scenarios to assess the applicability of their completed coursework to other degrees and/or certificates.

How to access Degree Works

Students access Degree Works through myLCC

- Login to [myLCC](#)
- Click on the School tab
- Click on Degree Works in the Student eToolbox
- Degree Works Audit page displays

Note: Students who have enrolled and have been admitted to LCC in the last several years are in Degree Works. Students who have not taken classes in several years will be added to Degree Works the next time they enroll for classes.

For additional information, visit the [Degree Works](#) webpage, contact the Registrar’s Office at 517-483-1200 option 2, or by [email](#) (registrar@star.lcc.edu).

Department Directory

For the most up to date information, go to the [Office & Department Directory](#) webpage.

eLearning Department

The eLearning Department is responsible for the administration of D2L, LCC's Course Management System (CMS). D2L support is provided, both in-person and online, to all students and instructors using D2L and online tools integrated into D2L.

D2L is used for the delivery of courses and course content for all course delivery methods. Courses utilize D2L to provide access to:

- Course content and materials
- Communication tools, including discussions and D2L email
- Assessment tools, including quizzes and assignment submission folders
- Course grades, including assignment grades and instructor feedback

The eLearning Department provides a variety of D2L resources to support students with the use of D2L and the tools integrated into D2L. View the resources below to see how the eLearning Department can assist with using D2L:

- **Online D2L Support Resources**
 - o - The [student resource site](#) provides access to D2L help resources and videos, eLearning contact information, online chat, and more!
- **D2L Trainings**
 - o The eLearning Department offers a variety of D2L training opportunities, including:
 - **Self-Paced D2L Training:** A variety of [self-paced trainings](#) are available in D2L to support the use of D2L and other online resources. Students are encouraged to complete the *D2L for Students-Training* to learn about accessing and navigating courses in D2L. Students are able to [self-enroll](#) in the training through D2L at any time.
 - **Live D2L Training Sessions:** Live D2L training [sessions](#) are offered each semester, via Webex, on a variety of D2L topics.
- **In-person Support Resources**
 - o eLearning staff is available for in-person assistance in the Technology Learning Center, Suite 1101 by appointment or walk-ins.
 - Call 517-483-1839 to make an appointment or visit the [Contact eLearning](#) webpage for additional information.

Emergency Management and Preparedness

The [Emergency Management Department](#) develops and administers an emergency management and preparedness program. Additional information can be found:

Emergency Response Guide

A college [Emergency Response Guide](#) with color through video

LCC Alerts, driven by RAVE and RAVE Guardian

LCC Emergency Alerts are used to warn people of an emergency that poses an imminent threat to life safety, such as violence or severe weather, ongoing criminal activity, or an urgent situation like a power outage.

There are three types of alerts, and three distinct email banners:

1. An **EMERGENCY NOTIFICATION** is an immediate threat to persons or property.
2. A **TIMELY WARNING** is based on a [Clery crime\(s\)](#) that pose(s) a serious or ongoing threat to the campus community.
3. **PUBLIC SAFETY NOTICES** are non-Clery incidents or situations that may impact campus safety or operations.

You can review or make changes to your RAVE profile by going to [RAVE Mobile Safety webpage](#) and specifying Lansing Community College.

Anyone in the community can also **register** for LCC Emergency Alerts by registering at the same site and specifying Lansing Community College.

To learn more LCC emergency communications, go to the [Emergency Communications](#) webpage.

RAVE GUARDIAN Safety app

Find in the ITUNES STORE and GOOGLE PLAY.

Download it for all these cool features:

- Panic Button
- Tip Texting
- Personal Guardians & Safety Timer
- Safety Profile
- Personal safety timer
- LCC Police Department direct chat
- LCC Police Department direct call
- LCC Alert Notification direct to app
- Local 911 direct call
- Help/tip lines
- LCC web resource link

Office of Empowerment (OE)

LCC's Office of Empowerment (OE) provides resources that foster awareness as well as empower students with knowledge, tools and experiences that promote global citizenship and a more inclusive campus. The Office of Empowerment includes the [Martin Luther King Jr. Equity Center](#), [Maya Angelou Training Center](#), and the [Caesar Chavez Multicultural Center \(CCMC\)](#).

For more information, please visit OE in the Arts & Sciences Building (A&S 1317), call 517-483-1118, view the [OE](#) webpage, or [email](#).

English for Speakers of Other Languages

The English for Speakers of Other Languages (ESOL) program focuses on developing academic English skills to achieve college readiness in reading and writing for students learning English as another language. The ESOL program serves students at a low intermediate level of proficiency or higher. This program builds upon the beginning ESOL literacy classes already offered in the community and serves as a bridge into LCC. ESOL High Intermediate and Advanced (levels 4 and 5) classes are offered for credit and are part of the English Department; ESOL Low Intermediate (level 3) classes are non-credit and are part of the Community Education and Workforce Development (CEWD) Division. For information regarding credit or non-credit courses, email the [Global Student Services Specialists](#) in Student Affairs. Additional information can be viewed on the [ESOL](#) webpage.

This program also serves as a connection to short-term, accelerated, or certificate-based Career Technical Education learning opportunities offered at LCC for both non-credit and credit programs. For more information, please contact the Job Training Center at 517-483-1857.

Faculty Information

To contact faculty member or other instructional personnel, please call the appropriate division office. Visit our website to view the [Academic Programs Contact Directory](#).

Financial Aid

The Financial Aid Office assists students with finding resources to finance their postsecondary education. Financial Aid resources are available through the federal government, state government, private organizations, and LCC. Students can contact the Financial Aid Office by calling 517-483-1200, Option 1, visit the [Financial Aid](#) webpage, or via [email](#).

Financial Responsibility

Students are expected to remain current on their financial obligations to the College. Students owing money to the College may be subjected to a hold and may not be permitted to register for classes until their account is paid in full or until a payment plan is approved by the College.

In addition, students must review, update, and accept the Financial Responsibility Agreement each semester of enrollment by logging into [MyLCC](#) and selecting Banner, then Student, and "Financial Responsibility Agreement." Doing so will automatically release the financial responsibility agreement hold allowing for registration in courses. Students are expected to and responsible for checking their LCC email for communications from Student Finance.

LCC Foundation

The LCC Foundation believes that a lack of financial resources should not be an obstacle to education for anyone. Over 500 scholarships are offered to students every year.

Some quick facts about scholarships at LCC:

- Scholarship applications open: November 1
- Scholarship applications close: January 31
- Website: [Scholarships](#)
- Online [Scholarship Workshops](#) and other scheduled workshops
- Approximately 500 scholarships are available

For more information, view the [Foundation Scholarships](#) webpage, contact at 517-483-1985, or via [email](#).

Global Student Services (GSS)

Global Student Services staff is here to help International Students navigate the admission and registration process, including issuance of Form I-20 documents and following visa regulations. GSS staff also provides support services to English Learner students. For more information, go to the [Global Student Services](#) webpage, call 517-483-1910, or [email](#).

Guest Speakers

In situations involving guest speakers, the College requires orderly conduct, noninterference with College functions or activities, and identification of the sponsoring groups or individuals.

Health Concerns

Some selective admission programs may require students to undergo medical testing and vaccinations. Students with medical conditions or disabilities are encouraged to contact the Center of Student Access (CSA) to determine whether they qualify for accommodations or exemptions. Discussions with CSA about medical conditions of students are confidential.

Health & Human Services Division

The [Health and Human Services](#) (HHS) Division offers essential health and wellness services through our public dental hygiene clinic, massage clinic, and human services practicums while providing students with clinical and workforce experience. The Health and Human Services Building houses HHS programs which prepare highly skilled healthcare, human services, and fitness professionals. In response to the local and national shortage of healthcare, human service and fitness workers, LCC leads in education, innovation, and simulation. Credentialed faculty provide instruction using cutting-edge equipment in programs that are nationally accredited or meet industry standards. LCC works with our community partners to provide healthcare apprenticeships and stackable certificates to heighten the credentials of our local workforce. For more information call the Health and Human Services Division office at 517-483-1410 or [email](mailto:lcc-hhs@star.lcc.edu) (lcc-hhs@star.lcc.edu).

High School-Based Programs

LCC offers high school-based programs, which include [High School Credit by Exam](#), [High School Advantage](#), Career and Technical Education Direct Credit (ERESA and CCRESA), as well as HOPE and Promise Scholarships. For more information call us at 517-483-9658 or send an [email](mailto:k12operations@star.lcc.edu) (k12operations@star.lcc.edu).

High School Dual Enrollment

Dual Enrollment provides an opportunity for qualified high school students to earn college credit while working toward their high school diploma. High school credit may or may not be granted according to the discretion of the participating student's high school. Dual enrollment affords students educational advancement in specific areas where unusual abilities and interest are displayed, especially in courses and academic areas not available in the student's high school. For further information, visit the [High School Dual Enrollment](#) webpage, call the Admissions at 517-483-1200 or send an [email](#).

Honors Program

The Honors Program at LCC offers enriched courses, special advising services, community service options, and other enhanced learning opportunities for students.

Each year, the program offers Honors Program Awards to new students who have demonstrated outstanding academic achievement and plan to complete a [two-year transfer curriculum](#) at LCC to pursue a bachelor's degree at a four-year institution. For more information, view the [LCC Honors Program](#) webpage or please contact us at 517-483-1061 or via [email](#).

Lactation Rooms

The college has identified several rooms that can be used for breast milk expression. These rooms meet statutory requirements and may be used by employees and students. Room locations follow:

Downtown Campus

- Washington Court Place (WCP) – Room 112
- Gannon Building – Room 2132F (Inside Women's Locker Room)
- Health and Human Services (HHS) – Room 009.1
- Technology and Learning Center (TLC) – Room 3307

Contact LCC Human Resources at 517-483-1870 for key access to the lactation rooms on Downtown Campus. Room keys may be 'checked-out' for the duration of the employee's and/or student's lactation necessity. Room keys are required to be returned to Human Resources when the lactation necessity is complete. Students and Employees are encouraged to contact Human Resources to 'check-out' a lactation key so you may use available spaces at your convenience. It is recommended that lactation room accommodations are made prior to parental leave.

West Campus: Contact Student Services at 517-267-5509

East Campus: Contact Liz Garrett at 517-483-1322

Livingston Center, Room B102: Contact Martha Anderson at 517-545-3522

**If the listed contact is unable to be reached, call LCC Human Resources at 517-483-1870. Students and employees can access lactation spaces after business hours by contacting LCC Police Department at 517-483-1800.*

Learning Commons

The Learning Commons is an academic support and learning assistance service for all students at LCC. Professional Tutors provide FREE Tutoring for LCC Students. Students are encouraged and welcome to walk-in to study and get tutorial assistance with our staff of Professional Tutors - no appointment needed. Students may schedule an individual tutoring appointment - both on-campus and online options are available.

Academic Workshops, Study Sessions, & Exam Prep Parties

Professional Tutors lead a variety of sessions throughout the semester to help students with specific topics, application of course content and skills, study tips, and learning strategies. Locations vary and may be scheduled on-campus, online, or hybrid – a combination of on-campus and online.

Student Peer Tutors

An opportunity for students to build a network of support. Peer Tutors work with teaching faculty in class and facilitate group peer-tutoring sessions for assistance outside of class on course specific content and skills.

Academic Resources at the Learning Commons

- **Study Spaces & Learning Studios** – Open, comfortable spaces welcome students to work individually or in small groups – independent study and tutoring is available.
- **Textbooks** – course-specific textbooks, reference material, and research assistance.
- **Models, Tools, and Equipment** – for Biology, Chemistry, Math, and other subjects.
- **Technology** – Laptops, iPads, and calculators for use on-site, along with computers that have specialized software applications for LCC course work.
- **Quick-Print Station** – Students can print and assemble papers and course material.

Learning Commons Locations:

- **Downtown Campus** - Abel B. Sykes, Jr. Technology and Learning Center (TLC) building TLC 1st & 2nd Floors
- **West Campus** – Room M123
- **East Campus** services vary by semester

More info -- Go to [The Learning Commons](#) Webpage

Phone: 517-483-1206

Email (learning-commons@star.lcc.edu)

[Tutoring Appointment Request form](#)

Library

At the Library, students can get research help from a librarian, study, relax, and check out books, journals, magazines, laptops, and calculators. Many textbooks are available for short lending periods. Study rooms, quiet study space and group collaboration areas are available, too. The Library offers e-books, e-journals, and a broad range of electronic resources that students and employees can access from the library's website.

For more information, visit us, go the [Library's](#) website, call 517-483-1038, or [email](#).

Media Services

Information Technology Services (ITS) offers a wide array of services to support student learning and promote academic goals.

Media Services, a part of ITS, offers the following services accessible to students: AV Services, Classroom Video, DMAC Equipment Checkout, Audio Services, and Photography and Media Creation & Design.

For more information on media services please visit the [Information Technology Services](#) webpage or contact Information Technology Services at 517-483-1755.

Occupational and Environmental Safety

LCC's Occupational and Environmental Safety (OES) Board Policy and The Occupational and Environmental Safety Framework guide divisions, departments, and programs in meeting local, state, and federal regulations related to the health and safety of our community. Working together, we can establish and maintain a comprehensive culture of safety at LCC. For more information, view the [OES](#) webpage, contact by telephone 517-483-1812, or by [email](#).

Office Directory

For the most up to date information, go to the [Office & Department Directory](#) webpage.

Orientation

Orientation is required for all students attending LCC prior to registering for classes. For guest students, transfer students or students who are dual enrolling while in high school, completion of orientation is not required. Please find the next steps on the [Getting Started at LCC](#) webpage. For additional information, please contact us at 517-483-1200 or by [email](#).

Payments

Student tuition payments can be made online, 24/7, by logging into myLCC and then selecting TouchNet. TouchNet is LCC's secure online payment vendor, where you can review account balances and payment history, make and schedule payments, or enroll in a payment plan. You may also authorize your parents or others to view account information and make payments on your behalf. LCC offers payment plans through TouchNet to help students budget their education expenses. Students are encouraged to enroll early for best payment plan selections. For more information, go to the [Student Finance](#) webpage, call 517-483-1200, option 3 or via [email](#).

Parking Services

All students have access to free parking in designated areas on campus. For most up to date parking information, please go to the [Parking at LCC](#) webpage.

Parking permits are issued to LCC students for the semester in which they are enrolled. For more information, please call us at 517-483-1798 or by [email](#).

REPLACEMENT

For a replacement permit, students and employees can visit LCC's Downtown Campus, AOF building, room 108, located at 315 North Grand Ave from 7:30 a.m. to 4 p.m., Monday through Friday.

PARKING ENFORCEMENT

The LCC Police Department (LCCPD) enforces parking on campus by patrolling the college's parking lots to ensure the safety of students, employees, guests, and their vehicles. As necessary, the LCCPD will also issue parking citations to maintain the integrity of the college's parking program.

LCC permit parking is for school-related business only. LCC parking lots cannot be used when attending to unrelated LCC business, such as off-campus employment. Permits are non-transferable and issued to a specific person for use. Use of a parking permit by someone other than the person to whom it was issued may result in a written violation or revocation of the parking permit.

ELECTRIC VEHICLE (EV) CHARGING STATIONS

LCC is proud to provide 32 ChargePoint charging ports at the Downtown Campus. All employees and students can charge their electric vehicles for free for up to four hours every day. Visit the [EV Charging](#) webpage to learn more.

LCC Police Department

Lansing Community College Police Department (LCCPD) consists of Police, Dispatch, and other services. LCC Police Department is charged with providing a safe environment at all LCC campuses, and maintains physical offices at the Downtown and West campuses. LCC Police provide services in areas of crime prevention and control, criminal investigations, traffic and parking violations, facilities security, and emergency first-aid treatment. LCC Police operates 24 hours, 7 days a week via police presence and Dispatch. They can be reached anytime at 517-483-1800 or via [email](#). In an emergency call 911 for Police, Fire, and Emergency Medical Services. Also visit the [LCC Police Department](#) webpage for more information.

Services

Below is a list of services provided by LCC Police Department. Visit us by stopping the LCC Police Department office in the Gannon Building downtown or call 517-483-1800:

- Battery jump starts
- Directional assistance
- Lost & Found at Downtown and West campus.
 - Disposal of unclaimed items takes place at the end of every semester.
- Open locked vehicles
- Safety escort
- After hours building access, if necessary
- Emergency CPR, First Aid, or AED use during a medical emergency
- Regular check and servicing of fire extinguishers, AED batteries, and first aid kits
- Emergency notifications and timely warnings when warranted

- The development and delivery of safety and law enforcement talks, when requested.

Please report suspicious behavior, unusual circumstances and any possible law enforcement crimes or offenses immediately by calling 517-483-1800. Anonymous reporting is acceptable.

Request a Police Escort

Police escorts are for LCC students, faculty or staff and not the general public. Citizens may request a police escort by:

- Calling 517-483-1800
- Approaching an officer directly around campus grounds
- Coming to the Police Department Office located in the Gannon Building at 411 N Grand Ave.

To facilitate the College's commitment in maintaining a secure and positive learning environment, students, staff, and visitors are encouraged to accurately and promptly report to LCC Police or other law enforcement agencies all crimes, suspicious activities, emergencies, and public safety incidents, including when the victim of a crime elects to, or is unable to make such report. To report a crime or incident to LCC Police call 517-483-1800. To report an emergency please dial 911 and emergency services will be dispatched. Dispatchers at LCCPD Office are available 24 hours/day, seven days/week to answer calls.

Any location:

- [LCC Police Department](#) (non-emergency) (517) 483-1800
- Main Campus: Lansing Police Department (non-emergency) (517) 483-4600
- East Campus: Meridian Township Police (non-emergency) (517) 332-6526
- West Campus: Eaton County Sheriff (non-emergency) (517) 543-3512
- Mason Jewett Airport: Ingham County Sheriff (non-emergency) (517) 676-2431

Emergencies Call 911

The Registrar's Office

The Registrar's Office maintains students' academic records and transcripts. It also issues certificates, diplomas, degrees, degree certifications, enrollment registration and verification, grade collection and recording, fee classification, and transfer credit processing. For more information, visit the [Registrar's Office](#) webpage, contact us at 517-483-1200, Option 2 or via [email](#).

StarCard Student IDs

The LCC StarCard is a student identification card that also provides students access to campus buildings and services. A StarCard is required at all building doors on LCC's Downtown Campus, West Campus, LCC East Campus, and Aviation Maintenance Technology Center. The Livingston County Center shares a building with Howell Public Schools and has instituted a separate security protocol.

The StarCard must be presented when requested by a College official. For more information, go to the [StarCard](#) webpage or contact the Help Desk at 517-483-5221.

StarZone

The StarZone is LCC's student services hub. Located in the Gannon Building at the Downtown Campus, the Enrollment Support Specialists can assist with registration, financial aid, student finance, and general questions. For more information, go to the [StarZone](#) webpage, contact by telephone at 517-483-1200, or [email](#).

Student Affairs Division

The Student Affairs Division offers student and academic support services. Our services are designed to help students reach their academic goals. For assistance, view the [Student Affairs Division](#) webpage, by [email](#), or please call 517-483-1162.

Student Finance

The functions of the [Student Finance](#) department include processing tuition payments, administering payment plans, working with third-party sponsorships, processing refunds for excess account balances, and issuing 1098T student tax statements. For more information, please contact us at 517-483-1200, option 3 or via [email](#).

Student Resources Webpage

LCC recognizes that basic needs can impact the success of our students. The [Student Resources](#) webpage can help you connect to information about these resources, such as:

- Academic Resources
- Student Support Services
- Food Resources & Assistance
- Laptops, Calculators & Technology
- Mental Health Resources
- Need Assistance Now? / Schedule an Appointment
- Relation and Intimate Partner Violence & Sexual Violence Resources
- Scholarship & Grants

If you cannot find what you need on this page, contact a Success Coach to get help at 517-483-1422 or [email](#) (lcc-successteam@star.lcc.edu).

Technical Careers Division

The [Technical Careers Division](#) at LCC's innovative West Campus offers hands-on programs in fields like Computer-Aided Design, Manufacturing Engineering, Cybersecurity, and Public Safety through the Fire and Police Academies. With access to advanced technologies and real-world training, students are prepared for careers in high-demand industries.

[Apprenticeships & Work Based Learning](#)

Students have the opportunity to gain real-world experience, and build their career with LCC's Apprenticeship Programs. LCC partners with industry leaders, to offer hands-on training in skilled trades, manufacturing, IT, and more.

[Computer Information Technologies](#)

With cybersecurity, computer programming, artificial intelligence, and cloud computing at the forefront of global industry needs, LCC's Computers & Information Technologies (CIT) programs equip students with the skills to protect digital assets and drive technological innovation.

[Design and Construction Technologies](#)

Turn blueprints into reality with hands-on training in Building Construction, Civil Technology, and Skilled Trades. From drafting and design to construction and project management, LCC prepares you for high-demand careers in building the world around us.

[Public Service Careers](#)

LCC offers programs for students seeking to work in Public Service Careers such as, Criminal Justice, Law Enforcement, Fire Science, and Legal Studies. Through specialized training in the Police Academy and Fire Academy, along with foundational programs in Criminal Justice and Legal Studies.

[Trades Technologies](#)

The Center for Manufacturing Excellence provides hands-on training in Computer-Aided Design, Manufacturing Engineering Technology, Welding, and Robotic. LCC has state-of-the-art equipment used in high-demand careers in modern manufacturing

[Transportation Maintenance Technology](#)

Get hands-on training in Automotive Technology, Heavy Equipment Repair, and Aviation Maintenance. Work with cutting-edge tools and emerging vehicle technologies to launch a high-demand career.

[Utility & Energy Systems](#)

Train for in-demand careers in Utility and Energy Systems at LCC. Opportunities in electrical work range from utility line worker and substation training, electrical

construction, or control and automation fields. Learn to operate, maintain, and repair the systems that power our communities, from smart grids to sustainable energy solutions

Take the next step toward an exciting career! Learn more at the [Technical Careers Division webpage](#) or call 517-483-1336.

Testing Services

Testing Services provides exam administration and related services to prospective and current students, faculty, and community members. The Testing Center is located in the Gannon Building, Room 2228. For more information, please contact us at 517-267-5500 or via [email](#), or visit the [Testing Services](#) webpage.

- [Course Testing](#)
 - Testing Services proctors LCC course exams for online and hybrid courses, lecture makeup exams and for students with accommodations for testing.
 - Some online/hybrid courses, even if the class is completely online, may require students to come in person to take an exam in a proctored environment. [View courses with required in-person testing](#). You can also check your syllabus or contact your instructor to determine if you will be required to do so.
 - Exams for online courses can be taken at Downtown Campus, West Campus, East Campus or an approved non-LCC testing site.
- [Placement Levels](#)
 - Most courses at LCC have minimum skill level requirements in reading, writing, and/or math that must be met before a student can enroll in the class.
- [Other Testing Services](#)
 - Proctoring Services (Non-LCC), CLEP, WorkKeys, and Certification Testing
- [Waiver Information](#)
 - All LCC students are required to meet individual course prerequisites before they can register. The waiver form can be used to obtain placement levels in Reading, Writing, and Math or to receive a prerequisite override based on previous college-level coursework.

Textbooks

Barnes & Noble College is LCC's official online bookstore. The bookstore presents all options available to students to purchase their textbooks including new with a guaranteed buyback price and, if available, used, e-book/digital, First Day Inclusive Access (FDIA), rental, and marketplace options.

Textbooks, both required and recommended, can be viewed on the [Barnes & Noble College online bookstore](#).

Other options available are:

- [*First Day Inclusive Access*](#)

First Day Inclusive Access (FDIA) is an alternative to traditional textbooks. FDIA provides students access to digital course textbooks and materials on the first day of class, at a lower cost than a physical copy of the textbook. To view courses using First Day Inclusive Access, go to the [Textbooks and Bookstores](#) webpage.

Need help using First Day Inclusive Access? Contact the [LCC Help Desk](#), 517-483-5221 or [online chat](#).

- [Open Educational Resource \(OER\)](#)

OERs are ebooks or other learning materials that are openly available to download and use at no cost. To view courses using an OER, go to the [Textbooks and Bookstores](#) webpage.

- [Library](#)

Textbooks for many courses are available for check-out in the Library. Please direct any questions via [email](#) or phone at 517-483-1626.

Some textbooks may be available as an [e-book](#) through the Library or as an [Open Educational Resource \(OER\)](#). [Ask a Librarian](#) if you need help.

- [*Local Bookstore*](#)

Student Book Store
421 E. Grand River Ave.
East Lansing, MI 48823
517-351-4210

For more information, view the [Textbooks and Bookstores](#) webpage, or contact the appropriate [department/program](#).

TouchNet

TouchNet is LCC's secure online payment vendor. Students can review account balances and payment history, make payments with credit/debit cards, schedule payments, enroll in an installment payment plan, select refund preference, review refund history, access 1098T student tax statements, authorize parents and others to view account information and make payments on student's behalf.

Transfer Center

The Transfer Center at LCC provides resources, guidance, and services necessary for LCC students to successfully transfer to another institution.

If you are interested in transferring your LCC credits to a 4-year College or University, we can help. Your journey begins with completing the [Transfer Success Form](#). Once submitted, a Transfer Center staff member will review your request to become familiar with your specific needs and then reach out to schedule an appointment with you.

Current, former, and prospective LCC students may take advantage of the Transfer Center's services located in the Gannon Building, room 2204 on LCC's Downtown Campus.

For more information, please call 517-483-9700, complete the [Transfer Success Form](#) or visit the [Transfer Center webpage](#).

Transfer Guides & Articulation Agreements

To review current information, please visit the [Transfer Guides & Articulation Agreements](#) webpage.

Requesting Official Transcripts:

LCC has partnered with the National Student Clearinghouse to offer electronic transcripts through an online ordering system. To request a transcript, please visit the [Requesting Official Transcript](#) webpage and carefully review the fees and requirements.

Transfer Events:

Please visit our [LCC Web Calendar](#) for a list of all campus events.

Center for Veteran and Family Support (CVFS)

The overall goal of the Center for Veteran and Family Support (CVFS) is to achieve the position and prestige of being the #1 Veteran-oriented campus in Michigan. The mission of the office is to provide a one-stop-shop atmosphere for our veteran and dependent students with the main goal being to assist our students in selecting the proper VA GI Bill® education benefit and help them enroll in a chosen GI Bill® benefit. The CVFS also acts as a liaison between students, the VA, and other LCC departments; making contacts on behalf of students when needed. We also offer a dedicated academic advisor, and a large veteran lounge area as a place for veteran students to meet, relax, and work on school work. For more information, please call 517-483-5246 or visit the [Center for Veteran and Family Support website](#).

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site for [U.S. Department of Veterans Affairs](#).

Writing Center

The Writing Center supports students in becoming more confident, proficient, and self-aware writers by fostering an understanding of effective writing strategies and individualized writing processes.

In-Person and Online Real-Time Appointments

The Writing Center offers 45-minute consultations available in both in-person and online real-time formats. Online appointments are conducted via WebEx. Students may schedule appointments up to two weeks in advance and will be prompted to select their preferred format—either in-person or online—at the time of booking.

Asynchronous Email Feedback

Students can submit an assignment sheet/description/rubric, their writing, and a prioritized list of concerns using the form on the Writing Center website. A Writing Assistant will respond to the student within 3 business days.

Hours of operation

Fall and Spring semester:	Monday-Thursday: 9 a.m. – 8 p.m. Friday-Saturday: 11 a.m. – 4 p.m.
Summer semester:	Monday-Thursday: 10 a.m. – 4 p.m. Friday: 10 a.m. – 2 p.m.

The Writing Center is located in A&S 2214, and can be contacted at 517-483-1907, by [email](mailto:writingctr@star.lcc.edu) (writingctr@star.lcc.edu), or by visiting the [LCC Writing Center webpage](#).

Registration

Course Offering Formats

Course offerings fit into six types:

- **In-Person/Face-to-Face:** Courses with all instruction delivered in-person in the classroom, clinical, or worksite. Look for sections with the Format “In-person/Face-to-Face.”
- **HYF - Hyflex:** Students have the flexibility to choose how they will participate for each class session: in-person, online during the class meeting time, or online asynchronously. Look for sections with the Format “HYF:Flex In-person or Online.” *
- **ON - Online:** Asynchronous online courses with no class meeting dates/times. Look for sections with the Format “ON: Online.” *
- **ORT - Partial Schedule Lecture:** Online real time (ORT)/live online courses with some regularly scheduled online meeting day(s) and times. Look for sections with the Format “ORT: Online Part Scheduled Time.”
- **ORT - Full Scheduled Lecture:** Online real time (ORT)/live online courses where all instruction is delivered online during designated meeting day(s) and times. Look for sections with the Format “ORT: Online at Scheduled Times.”
- **OH - Online Hybrid:** Required in-person instruction with online coursework and activities. Look for sections with the Format “OH: In-person and Online.”

*Courses offered in an online format may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, including the courses that require onsite proctored exams, please visit the Online Course Testing webpage.

Estimate Tuition Cost

Planning for the cost of higher education is extremely important. Use the [Tuition Cost Estimator](#) tool to estimate the cost of tuition for this semester.

Course fees support costs unique to specific courses, beyond the standard cost of instruction and basic materials. Fees include a variety of consumable costs, specialized equipment, and technology dedicated to the associated course. Further, small group instruction is sometimes required by state or federal regulations, national accreditation mandates, or quality and safety standards, which all impact faculty-to-student ratios and overall program costs. These costs do not change because of distance learning.

Register for Class(es)

To register, Log into [myLCC](#), and click on the [Banner](#) link to drop or add course(s). For assistance on how to register online, please check out LCC's "How to Register Online" instruction guide.

Note: Prerequisite overrides are managed within each [division/department](#).

Students can add classes based on the teaching periods. For important deadline details, see the charts:

- Registration begins Monday, April 28, 2025
- Registration begins Monday, October 13, 2025
- Registration begins Monday, March 30, 2026

Register early for best class selection! For additional information, call LCC at 517-483-1957 or toll-free at 1-800-644-4522. Refer to variable-date options list for classes beginning throughout the semester.

Many LCC courses are offered in a shorter timeframe than the traditional full-semester teaching period and provide the same amount of credit. See the list above for the various start and end dates of the teaching periods.

Students must be admitted to the College and complete the required steps prior to registering.

Students should determine that all the required course prerequisites have been met and seats are available.

Late Registration and Scheduling Adjustments

Late registration at LCC is allowed within the first calendar week or three (3) days of registration, depending on the parts of term.

- Late registration for Fall and Spring, parts of term: 16 week, 15 week, and 14 week; will be allowed within the first week (7 calendar days) of registration.
- Late registration for Fall and Spring, parts of term: 12 week, 12B week, 8A week, and 8B week; will be allowed within the first three days (3 calendar days) of registration.
- Late registration for Summer, for all parts of term, will be allowed within the first three days (3 calendar days) of registration.

Late registration is defined as adding a course for the current semester after the semester has begun. A schedule adjustment is defined as adding a course by a student with registration activity for the current semester. Adding an additional course, switching sections, and being reinstated into a section in which the student was previously registered, are all examples of schedule adjustments. Once the late registration period has ended, special circumstance may be considered after consultation with the instructor and the Academic Dean.

WHAT IS REGISTRATION ACTIVITY?

Examples of registration activity include:

- A student is registered in a section for the current semester
- A student dropped a section during the current semester
- A student was on a waitlist for a section during the current semester

Online Courses Requiring On-campus Testing

Some courses offered in an online format require in-person proctored testing. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s). These courses include:

- ACCG 210
- BIOL 201, 202, 203, and 270
- CHEM 151 and 152
- CIP 180, 190, and 280
- IRXT 144, 222, and 224
- MATH 119, 120, 126, 141, 151, 152, 253, 254, and 260
- PHYS 120
- SOCL 120 and 260
- STAT 170 and 215

Requests for a non-LCC testing location should be made to LCC's Testing Services at least 5 business days prior to the exam opening date. For more information, please visit the [Testing Services webpage](#).

Online Degrees and Certificates

Associate of Applied Science Degree

- Cybersecurity (1832)
- Digital Media and Design (1846)

Associate of Arts Degrees

• African-American History (0137)	• History (0197)
• American Studies (0142)	• History, Humanities, and English (1860)
• Anthropology (1621)	• Journalism (1628)
• Art History (0746)	• Philosophy (0159)
• Business Transfer Studies (1622)	• Psychology (0215)
• Criminal Justice (0146)	• Sociology (0753)
• Economics (0230)	• World Language (0132)
• Education (1624)	

Associate of Business Degrees

- Accounting (0162)
- Accounting CPA Exam Prep (0255)
- Business Administration (0243)
- Computer Programmer/Analyst (0113)
- E-Business (0839)
- Human Resource Management (0712)
- International Business (0240)
- Legal Studies (0101)
- Management and Leadership (0245)

Associate of Fine Arts:

- Theatre (1849)

Certificates

- Accounting, Certificate of Achievement (0714)
- Advanced Management, Certificate of Achievement (0280)
- Computer Programmer/Analyst, Certificate of Completion (0969)
- Computer Software Tester, Certificate of Achievement (1633)
- Computer Technology Basics, Certificate of Completion (0844)
- Correctional Officer, Certificate of Completion (0840)
- Cybersecurity Advanced, Certificate of Completion (1845)
- Cybersecurity Foundations, Certificate of Completion (1833)
- E-Business, Certificate of Achievement (0845)
- eDiscovery Proficiency Certificate, Certificate of Achievement (1847)
- Information Technology Foundations, Certificate of Completion (0766)
- Japanese Studies, Certificate of Completion (1787)
- Legal Studies Post-Bachelor, Certificate of Achievement (0744)
- Management, Certificate of Achievement (0249)
- Microsoft Office Specialist, Certificate of Completion (0841)
- Sales Specialist, Certificate of Achievement (0242)
- Spanish Studies, Certificate of Completion (1788)
- Web Site Developer, Certificate of Completion (0843)

General Associate Degrees

- Business (1821)
- Communication, Journalism, and Language (1823)
- Public Services Career Community (1848)

Transfer Programs

For students following the [Michigan Transfer Agreement](#), the requirements can be completed online.

Maximum Enrollment per Semester

Individual students will enroll in no more than 28 credits per semester. Students who wish to enroll in more than 28 credits per semester may request permission from the Dean or designee overseeing the academic program the student is following. The Dean or designee will make a decision which is based on the student's academic and personal circumstances and which supports reasonable expectations for successful learning and course completion. In the case of any appeal, the final decision rests with the Academic Affairs Office.

Placement Levels

Most courses require basic skills proficiency levels which must be met prior to enrolling in courses that require specific placement levels. Students are strongly encouraged to establish their placement levels, complete orientation, and meet with an advisor prior to registration. Placement levels may be established through high school transcripts documenting required GPA or through ACT, SAT, CLEP, ASVAB, or GED test scores, or through placement testing. Levels may also be established through previously completed college coursework.

Tuition and Fee Information

Below are policies related to the calculation of tuition based on residency and veteran status, the payment of those fees, and the refund policy.

Eligibility for In-District, In-State, Out-of-State, or International Tuition

In order to abide by state law and ensure the fairness for taxpayers in the district, the College's Board of Trustees periodically approves revised tuition and fees for resident, non-resident, out-of-state, and international students.

2025-2026 TUITION RATES (PER BILLING HOUR)

The cost to the student for attending a course is determined by the course's billing hours, instead of credit hours. A billing hour represents the scheduled amount of time that a student spends in direct contact with an instructor, in lab, or with laboratory equipment.

*COLLEGE DISTRICT RESIDENT STUDENTS - \$120**

Resident students have lived for four months or more within one of the 15 school districts listed below and pay property taxes to support LCC's budget. School districts include:

School Districts included in LCC District		
Bath	Haslett	Okemos
Dansville	Holt/Dimondale	Stockbridge
Dewitt	Lansing	Waverly
East Lansing	Leslie	Webberville
Grand Ledge	Mason	Williamston

*IN-STATE STUDENTS - \$240**

If student resides in Michigan, but not in one of the above 15 school districts, the student is an in-state student.

*OUT-OF-STATE STUDENTS - \$360**

If student lives outside of Michigan, the student is an out-of-state student.

*INTERNATIONAL STUDENTS - \$420**

If the student has been admitted to the United States on a temporary, non-resident status, the student is classified as an international student.

*SENIOR CITIZENS**

If a student is age 62 or older on the first day of the semester and a resident of the LCC district four months prior to the beginning of the semester in which registering, the student qualifies for a reduced tuition rate of \$60 per billing hour on classes at LCC. (Note: Michigan residents living outside the LCC district qualify for a reduced rate of \$120 per billing hour.) These rates apply to LCC classes taken for audit or credit. Classes with zero billable hours are not covered by the tuition rate reduction. For details, stop by the [StarZone](#) or call 517-483-1957.

Mandatory Fees

- **Registration Fee - \$25***
The registration fee is applied to each semester the student is enrolled and pays for some of the cost of registration. This fee is charged to all students.
- **Student Support Fee - \$15***
Fee includes student support services such as tutoring, advising, counseling, library, computer lab, and parking. (This fee is charged per billable hour.)
- **Course Fee ***
Course fees vary and apply to courses requiring specialized supplies, equipment, facilities, and other instructional resources unique to the individual course.

*Tuition and Fees are subject to change by action of the LCC Board of Trustees.

About Billing Hours

What is a billing hour?

The cost for attending a course is determined by the course's billing hours, instead of credit hours. A billing hour represents an amount of time that a student spends in direct contact with an instructor or with laboratory equipment.

How are billing hours for a course determined?

Several factors are considered in determining the billing hours of a course. The main factor is the number of hours the student is expected to either be in a class or in another "instructional" setting (such as a lab) in a typical week for a full-semester course. LCC courses range from one billing hour to more than 10 billing hours per course. The billing system caps the number of billing hours that can be added to a course. For the majority of courses at LCC, the credit hours and the billing hours are the same.

Tuition Estimate Resources

[Tuition Cost Estimator](#)

The Course Tuition Cost Estimator will give you a rough estimate of the tuition and fee charges for one or more courses you plan to enroll in. This is a tool to help you plan prior to registering for courses.

[Net Price Calculator](#)

This tool can be used to receive an estimate of how much students similar to you paid to attend LCC during the current Academic Year.

Military-Connected Student In-State Tuition

A Military-Connected Student is an individual who is using Veterans Affairs (VA) Educational Benefits under Chapter 30, Chapter 31, Chapter 33, Chapter 35, or the Fry Scholarship. A Military-Connected Student who lives in the State of Michigan while attending LCC, regardless of their former state of residence, and regardless of when they or the military member was discharged from military service, will pay in-state tuition rates for all VA approved programs.

To remain compliant and approved to receive VA GI Bill® funding, schools must charge in-state tuition and fee amounts to “covered individuals.” A “covered individual” is defined in Section 1005 of Public Law 116-315 as:

- A veteran who lives in the state in which the institution of higher learning is located, regardless of their former state of residence, and enrolls in the school, regardless of when they discharged from military service.
- A spouse or child using transferred benefits who lives in the state in which the institution of higher learning is located, regardless of their former state of residence, and enrolls in the school, regardless of when the military member discharged from military service.
- A spouse or child using benefits under the Survivors’ and Dependents Educational Assistance Program (DEA) who lives in the state in which the institution of higher learning is located, regardless of their former state of residence, and enrolls in the school, regardless of when the military member died in the line of duty or when the individual became eligible to receive the benefit.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in the state in which the institution of higher learning is located, regardless of their former state of residence, and enrolls in the school, regardless of when the military member died in the line of duty.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government web site for [U.S. Department of Veterans Affairs](#).

Payment of Tuition and Fees

According to the Michigan Community College Act, “the Board of Trustees may establish and collect tuition and fees for resident and nonresident students.” The Board of Trustees shall review student tuition and fees on an annual basis, based on the financial requirements of the College, to provide optimal services to students at an affordable price.

Tuition and Fees Refund Policy

It shall be the College policy to refund tuition and fees accordingly, except where superseded by law, to a student who properly withdraws from a class. Specific dates can be found in the Teaching Period Schedule for [Fall 2025](#), [Spring 2026](#), and [Summer 2026](#).

Additional information can be viewed on the [Tuition and Fees Refund Policy](#) webpage, per the [Board Policy 5.070: Student Tuition and Fees](#).

Financial Aid

What is Financial Aid?

Financial aid refers to funding intended to help students cover the cost of their education. It may come in the form of grants, scholarships, work-study opportunities, and loans. Financial aid is typically awarded based on financial need, academic merit, or a combination of both. Federal and state regulations, institutional policies, and individual program requirements determine eligibility and application procedures.

Ways to Cover the Cost of Post-Secondary Education

Scholarships

Scholarship eligibility varies based on financial need, academic merit, field of study, talent, athletic participation, etc. For the most part, these funds do not need to be repaid. Students can apply for scholarships at LCC, the State of Michigan, community organizations, and their employer. Selection criteria and requirements vary according to the individual scholarship and it is important to pay attention to application deadline dates. Please take a look at the following scholarship opportunities offered through a variety [online scholarship search engines](#).

Grants

Grants are funds to help cover educational costs and do not need to be repaid. These funds are offered by the federal government, State of Michigan, and LCC. Additional information can be found on the [Grants](#) webpage.

Student Employment & Work-Study

On- and off-campus employment opportunities allows the student to earn the funds to help cover the costs of educational expenses. As work is completed, the student can earn wages that may be used toward school-related costs. More information can be found on the [LCC Student Employment & Work-Study](#) webpage.

Loans

Loans are available through the government and students also have the option of taking out loans from a private lender. These funds must be repaid. See the [Loans](#) webpage for more information.

Applying for Financial Aid

Free Application for Federal Student Aid (FAFSA) Process

To qualify for Financial Aid, students must complete and submit the Free Application for Student Aid ([FAFSA](#)) using LCC's school code: 002278.

If planning on attending Fall 2024, Spring 2025, and/or Summer 2025, the student must complete the 2024-2025 FAFSA, which requires 2022 income information.

Types of Financial Aid

Need-Based v. Non-Need-Based Financial Aid

Need-based aid is financial aid a student can receive if the student has financial need and meets other eligibility criteria. Financial need is determined by subtracting the Student Aid Index (SAI) derived from the FAFSA from the student's Cost of Attendance (COA). Students cannot receive more need-based aid than the amount of financial need.

Example: COA of \$11,000 and SAI of \$7000 = financial need of \$4,000. Student is eligible for \$4,000 in need-based aid.

The following are need-based financial aid programs:

- [Children of Fallen Heroes Scholarship](#)
The Children of Fallen Heroes Scholarship is provided to students whose parent or guardian was a public safety officer who died in the line of duty. This scholarship is available to those who are Federal Pell Grant eligible and are under 24 years of age or enrolled at an institution of higher education at the time of parent's or guardian's death.
- [Federal Pell Grant](#)
The Federal Pell Grant is a need-based federal grant to promote access to postsecondary education, and is awarded to low- and middle-income undergraduate students who have not yet earned a bachelor's or professional degree. Students must meet [basic eligibility requirements](#). Grant amounts are based on the student's SAI (see [Determining Financial Aid Eligibility](#)), and [enrollment level](#) at the [Federal Pell Grant Census Date](#). The maximum annual award is \$7,395 for 2024-2025 award year. Students are limited to receiving the equivalent of 12 full-time semesters of Federal Pell Grant.
- [Federal Supplemental Educational Opportunity Grant \(FSEOG\)](#)
The FSEOG is a federal grant awarded to students who demonstrate financial need, meet the [basic eligibility requirements](#), and qualify for a Federal Pell Grant. FSEOG funding is limited; therefore, priority is given to students who have the lowest SAI.
- [Federal Direct Subsidized Loan](#)
Federal Direct Subsidized are loans made to eligible undergraduate students who need help with covering educational expenses. These funds must be repaid according to the terms of the Master Promissory Note and interest does not accrue while the student is in school.
- [Federal Work-Study](#)
Federal Work-Study is a need-based federal program that provides students with employment opportunities, both on- and off-campus, to assist with educational expenses. Students must meet the [basic eligibility requirements](#) to receive these funds.

- [Fostering Futures Scholarship](#)
The Fostering Futures Scholarship is awarded on a first-come, first-served basis to students who have been placed by the Department of Human Services in the Michigan foster care system on or after the 13th birthday. To apply for these funds, students can create an MISSG portal and submit a Fostering Futures Scholarship application or contact the Customer Care Center at 1-888-447-2687. Eligible applicants are required to maintain half-time enrollment (minimum 6 credit hours) and meet Satisfactory Academic Progress.
- [Iraq & Afghanistan Service Grant](#)
The Iraq and Afghanistan Service Grant is a need-based federal grant awarded to students whose parent or guardian was a member of the U.S. armed forces who died as a result of military service performed in Iraq or Afghanistan after the events of 9/11 when the student was under 24 years old or enrolled in college at least part-time at the time of the student's parent's or guardian's death. The student must be enrolled at least half-time (6 credit hours) and the award amount is prorated based on enrollment level: 100% for full-time (12 or more credits), 75% for three-quarter-time (9-11.99 credits), and 50% for half-time (6-8.99 credits).
- [LCC Grant](#)
The LCC Grant is an institutional grant awarded to students who demonstrate financial need. Grant funds are limited; therefore, priority is given to students with the lowest SAI.
- [Michigan Competitive Scholarship](#)
The Michigan Competitive Scholarship is awarded to students who are pursuing their first degree and demonstrate financial need along with having a qualifying ACT or SAT score. Eligible applicants are required to file a FAFSA each year, maintain half-time enrollment (minimum 6 credit hours), maintain a GPA of 2.0 and meet Satisfactory Academic Progress. This award can only pay for tuition and fee charges and may be adjusted due to other awards. The award amount is pro-rated based on enrollment levels: 100% for full-time (12 or more credits), 75% for three-quarter-time (9-11.99 credits), and 50% for half-time (6-8.99 credits).

Non-need-based aid is financial aid that is not based on SAI. The student's eligibility is determined by COA and the amount of other financial aid awarded. [State of Michigan, Scholarship and Grant Programs webpage.](#)

Example: COA of \$11,000 and need-based awards of \$4,000 = no more than \$7,000 in non-need-based aid.

The following are non-need-based student aid programs:

- [Children of Veterans Tuition Grant \(CVTG\)](#) The CVTG is awarded for up to four academic years to students older than 16 and less than 26 years of age who are the natural or adopted child of a Michigan veteran. The veteran must have died or become totally and permanently disabled as a result of military service. Students must enroll at least half-time (minimum 6 credit hours) and meet Satisfactory Academic Progress (SAP) standards, which includes maintaining a minimum GPA of at least a 2.25, to continue to receive the award. This award covers tuition and mandatory fees (Registration and Student Support Fees), prorates based on enrollment level and may be adjusted due to other awards. CVTG will not cover any billing hours in excess of credit hours.
- [Federal Direct Unsubsidized Loan](#)
The Federal Direct Unsubsidized are loans made to eligible undergraduate, graduate, and professional students to help cover educational expenses. These funds must be repaid according to the terms of the Master Promissory Note and interest does accrue while the student is in school.
- [Federal Direct PLUS Loan](#)
The Federal Direct PLUS are loans made to parents of a dependent student to help cover educational expenses of the dependent student. Eligibility is not based on financial need, but a credit check is required. Parent borrowers who have an adverse credit history must meet additional requirements to qualify.
- [Futures for Frontliners \(F4F\)](#)
The F4F provides tuition assistance to Michigan residents who have not obtained a college degree and worked as a frontline worker in an essential industry between April 1 and June 30, 2020. The program is intended to give thanks to those who put themselves at risk during the pandemic. Students must have applied by December 31, 2020. The scholarship covers any remaining in-district tuition and mandatory fees (Registration and Student Support Fee) that are not covered by the Federal Pell Grant or other tuition-restricted scholarships. Students must maintain enrollment in a financial aid eligible program, earn 12 credits per academic year, and maintain a 2.0 GPA or meet Satisfactory Academic Progress to maintain renewal in the program.
- [Gaining Early Awareness and Readiness for Undergraduate Programs \(GEAR-UP\)](#)
The Michigan GEAR UP (MI GEAR UP) is a federally funded program designed to provide early intervention services and programs to students in middle school and high school. MI GEAR UP targets low-income students by providing them with support services to increase their opportunity to succeed in postsecondary education. Students must maintain Satisfactory Academic Progress and be enrolled at least half-time (6 credit hours).

- [Michigan Indian Tuition Waiver \(MITW\)](#)
The MITW is awarded to students approved by the Michigan Department of Civil Rights. Students must be $\frac{1}{4}$ or more Native American blood quantum as certified by their Tribal Enrollment Department, be an enrolled citizen of a U.S. Federally Recognized Tribe as certified by the Tribal Enrollment Department, and be a legal resident of the state of Michigan for no less than 12 consecutive months. The MITW award can only pay for tuition charges and may be adjusted due to other awards.
- [Michigan Reconnect](#)
Michigan Reconnect provides tuition assistance to Michigan residents who are 21 years of age or older and have not obtained a college degree. The scholarship covers any remaining in-district tuition and mandatory fees that are not covered by the Federal Pell Grant or any state tuition-restricted scholarships. In addition to completing the FAFSA, students must complete and submit the [Reconnect Application](#). Students must begin classes within 12 months from the date the application was approved by the State of Michigan. For renewal of the scholarship, students must earn 12 credits each academic year, maintain a 2.0 GPA while in the program or meet Satisfactory Academic Progress.
- [Police Officer's and Firefighter's Survivor Tuition Act](#)
The Police Officer's and Firefighter's Survivor Tuition Act provides a waiver of tuition for the surviving spouse and children of Michigan police officers and firefighters who died in the line of duty. The program is intended to provide an educational benefit to the spouse and children of police officers and firefighters who made the ultimate sacrifice for their communities and the citizens of Michigan. Tuition is waived for eligible survivors enrolled at least half-time (6 credits) in classes leading to a certificate or undergraduate degree. Students must maintain Satisfactory Academic Progress.
- [Private \(Alternative\) Loans](#)
Private (Alternative) Loans are credit-based student loans offered by private lenders. They are available to students who need funds in addition to their federal aid to meet educational expenses or for those students not eligible for federal aid.
- [Tuition Incentive Program \(TIP\)](#)
The TIP is awarded for up to 80 credits to students enrolled in an Associate Degree or Certificate program that requires at least 30 credits. Students must enroll at least half-time (minimum 6 credit hours) in courses that are required for the declared program of study and meet Satisfactory Academic Progress standards. This award covers in-district tuition and mandatory fees and may be adjusted due to other awards. TIP will not cover any billing hours in excess of credit hours.
- [Michigan Achievement Scholarship / Community College guarantee](#)
The Michigan Achievement Scholarship/Community College Guarantee scholarship provides renewable scholarships to undergraduate students who graduate from a Michigan high school with a diploma, certificate of completion, or achieved a high school equivalency certificate in 2023 or after. Students must have a complete Free Application for Federal Student Aid ([FAFSA](#)) on file and be enrolled full-time (12 or

more credits). The scholarship includes a tuition/fee portion covering the in-district tuition and mandatory fees per semester according to the State of Michigan packaging guidelines to cover remaining in-district portion of tuition and mandatory fees that are not covered by other gift aid. Students who are eligible for the PELL Grant are awarded a Michigan Achievement bonus of \$1000. Depending on individual student eligibility, the award may cover other educational expenses

- [Michigan Achievement Skills Scholarship](#)

With the Michigan Achievement Skills Scholarship, students can receive up to \$2,000 per year for up to two years to attend an eligible career training program in Michigan. Students must be a Michigan resident for at least the immediately preceding year, have graduated from high school in Michigan with a diploma or a certificate of completion or achieved a high school equivalency certificate in 2023 or after, have not yet earned an associate or bachelor's degree, and have not yet earned a degree, certificate, or other credential with this scholarship.

Eligible LCC short term training programs:

- Vascular Technology (1604)
- Juvenile Justice (0916)
- Phlebotomy Technician (1010)
- Bookkeeping Professional (JTC)
- Pharmacy Technician (1024)
- Human Services (1201)
- Medical Assistant (1811)
- EKG Technician CC (1442)
- Magnetic Resonance Imaging Technology (1602)
- Paramedic (0272)

- [Michigan Reconnect Short-Term Training Program](#)

Students can choose to attend a career training program in Michigan through the Reconnect Short-Term Training Program and receive a one-time scholarship up to \$1,500 towards tuition costs. Students must be 21 years or older prior to submitting the application, be a Michigan resident for at least the immediately preceding year, have graduated from high school with a diploma or a certificate of completion or achieved a high school equivalency (e.g., GED) certificate, and have not yet earned an associate or bachelor's degree. Student must [Submit an application](#) by December 15, 2025, enroll in an [eligible career training program](#), and begin career training program prior to December 31, 2025.

Eligible LCC short term training programs:

- Vascular Technology (1604)
- Juvenile Justice (0916)
- Phlebotomy Technician (1010)
- Bookkeeping Professional (JTC)
- Pharmacy Technician (1024)
- Human Services (1201)
- Medical Assistant (1811)
- EKG Technician CC (1442)
- Magnetic Resonance Imaging Technology (1602)
- Paramedic (0272)

Financial Aid Policies

Basic Eligibility Requirements

While each aid program has special requirements, the following are basic requirements that apply to federal financial aid. In order to be eligible to receive federal financial aid, the student must:

- Complete the Free Application for Federal Student Aid (FAFSA).
- Have earned a High School Diploma (High School Certificate of Completion is not the same as a High School Diploma) or GED/State Certification, or have completed Homeschool graduation requirements.
- Be enrolled or accepted for enrollment in an eligible degree or certificate program and only be taking courses that lead to that degree or certificate.
- Be a U.S. citizen or national, permanent resident, or other eligible noncitizen.
- Have a valid Social Security Number, except for residents of the Federated States of Micronesia, Republic of the Marshall Islands, or the Republic of Palau.
- Be making Satisfactory Academic Progress.
- Not owe an overpayment on a Title IV grant or be in default on a Title IV loan.
- Have returned fraudulently obtained Title IV funds, if convicted of or pled guilty or no contest to charges.
- Not have fraudulently received Title IV loans in excess of annual or aggregate limits.
- Have repaid Title IV loan amounts in excess of annual or aggregate limits, if obtained inadvertently.

Determining Eligibility

After completing the [Free Application for Federal Student Aid \(FAFSA\)](#), the student will receive a Student Aid Report. The Financial Aid Office will use the information from this report to determine the types and amounts of financial aid the student may qualify for by using the following formula:

$$\text{COST OF ATTENDANCE} - \text{STUDENT AID INDEX} = \text{FINANCIAL NEED}$$

Cost of Attendance

Cost of attendance (COA) is based on the average educational and living expenses for a student attending LCC. It does not represent an individual student's actual costs. The COA includes:

- Tuition and Fees
- Books and Supplies
- Housing and Food
- Transportation
- Personal and Miscellaneous
- Loan Fees
- Professional Licensure (if required for program)

Students may determine or estimate their COA using the following methods:

1. Current financial aid students, login to [myLCC](#), click Banner, select Financial Aid and Financial Aid Record to access the Award Overview tab
2. Prospective students, access the [Net Price Calculator](#) or view the below chart for fall and spring semester costs for a full-time student

Full Time Cost of Attendance Chart

Standard Academic Year (Fall & Spring)	Resident	In State	Out of State	Senior
Books and Supplies	\$400	\$400	\$400	\$400
Tuition and Fees	\$4,000	\$7,600	\$11,000	\$5000
Loan Fees	\$80	\$80	\$80	\$80
Personal and Miscellaneous	\$1,600	\$1,600	\$1,600	\$1,600
Food	\$4,000	\$4,000	\$4,000	\$4,000
Housing*	\$12,800	\$12,800	\$12,800	\$12,800
Transportation	\$1,600	\$1,600	\$1,600	\$1,600
TOTAL	\$24,480	\$28,080	\$31,480	\$25,480

*Housing: For students enrolled in more than six credits in fall or spring or three credits in summer and who receive Veteran Benefits that include a Basic Allowance for Housing (BAH), Room cost will be 0.

Student Aid Index

The Student Aid Index (SAI) is an eligibility index number that the financial aid office uses to determine how much federal student aid you would receive. This number results from the information that you provide on your FAFSA® form. This number is not a dollar amount of aid eligibility or what your family is expected to provide. A negative SAI indicates the student has a higher financial need.

The SAI is not the amount of money the family will have to pay for college, nor is it the amount of federal student aid a student will receive. It is a number used by schools to calculate how much financial aid students are eligible to receive.

Professional Judgment

Professional Judgment refers to the discretion that federal regulations give to financial aid administrators to make adjustments, on a case-by-case basis, to certain elements of a student's FAFSA information or adjust a student's dependency status. These adjustments are intended to provide a more accurate assessment of the amount of federal aid a student is eligible to receive. There are two types of Professional Judgment:

SPECIAL CIRCUMSTANCES:

Refers to financial situations that justify an aid administrator adjusting the student's data elements in the Cost of Attendance and/or Expected Family Contribution calculation(s) such as:

- Loss of Income: Loss of employment; household size changes due to separation, divorce, birth or additional dependents, etc.; high medical expenses; Rollovers of IRA's; etc.
- Cost of Attendance: Study abroad expenses; cooperative education costs; dependent care; disability-related expenses; etc.

UNUSUAL CIRCUMSTANCES

Refers to the conditions that justify an aid administrator making an adjustment to dependency status (more commonly referred to as a dependency override), based on a student's unique situation such as:

- Human trafficking; refugee or asylee status; parental abandonment; homelessness; incarceration; etc.

Students, with an approved dependency override in a prior academic year, will remain independent for each subsequent award year unless LCC has conflicting information about the student's independence status or the student's circumstances have changed. If the student's circumstances have changed, the Financial Aid Office must be notified.

Students will need to complete the [Professional Judgment Request](#) form and will be required to provide supporting documentation. If additional clarification is needed after reviewing the supporting documentation, the student will be notified via their LCC email to access their Banner Self Service account to determine the clarifying documentation that is needed. In some cases, an advising appointment and/or phone conversation may be needed.

Consortium

In some cases, students choose to attend two colleges simultaneously. In most cases, a student cannot receive Federal or State financial aid at both institutions simultaneously and consequently, financial aid would be processed by only one of the colleges where the student is enrolled.

In the case where a pre-articulated Consortium Agreement exists between two institutions, the student's combined enrollment will be used to determine aid eligibility. To learn more, please contact the Financial Aid Office at LCC for program specific information.

Courses in Program of Study

The U.S. Department of Education requires students to be enrolled in an eligible program of study to receive financial aid and only courses that apply toward that program of study will be used to determine the amount of financial aid the student will receive. The purpose of this federal requirement is to ensure students are able to obtain their degree or certificate in a timely manner with minimal debt for student loan borrowers and to ensure that federal funds are used only to obtain a degree or certificate. Therefore, if a student registers for a course that does not count toward the declared degree or certificate, the course will not be used to determine the student's financial aid eligibility. To learn more, please refer to the [Courses in Program of Study Q&A](#).

Enrollment Level

Financial aid is offered to students based on enrollment as a full-time student. If a student enrolls less than full-time, certain awards may be prorated. Enrollment level changes could impact the amount of financial aid a student will receive. Adding, dropping, withdrawing, or changing a course to audit status, after the semester begins, are types of enrollment level change that could impact the amount of aid a student receives. Before making an enrollment level change, students should contact their instructor, Success Coach, and the Financial Aid Office to understand all possible consequences of the change.

The chart below defines enrollment level based on the number of credits a student enrolls for:

Enrollment Level	Credits Required for Fall, Spring, and Summer Semesters
Full-Time	12 or more credits
Three-Quarter-Time	9 - 11.99 credits
Half-Time	6 - 8.99 credits
Less Than Half-Time	Less than 6 credits

- **Add** - adding a course to the student schedule.
- **Audited** courses are taken for no grade. Therefore, courses being audited cannot be considered part of a student's enrollment level for financial aid purposes.
- **Drop** - removing a course from the student schedule where instructor approval is not required. A drop also removes the course from the student's academic record.

Generally, this means that the student will no longer be charged for all or part of the course. A course canceled by LCC is also considered a dropped course.

- **Non-credit courses** are courses that are not given credit or grade for the hours earned. Therefore, non-credit courses cannot be considered part of a student enrollment level for financial aid purposes.
- **Withdrawal** - removing a course from the student schedule by issuing a grade of W (withdrawal) for the course. The course will be part of the student's academic record.

Enrollment Intensity for Federal Pell Grant

Enrollment intensity is the percentage of full-time enrollment at which a student is enrolled, rounded to the nearest whole percent. For example, full-time enrollment is 12 credit hours and the student is enrolled in 7 hours, the enrollment intensity would be $7 \div 12 \times 100\% = 58\%$.

Enrolled Credit Hours	Formula	Enrollment Intensity
12	12 hours $\div$ 12 hours	100%
11	11 hours $\div$ 12 hours	92%
10	10 hours $\div$ 12 hours	83%
9	9 hours $\div$ 12 hours	75%
8	8 hours $\div$ 12 hours	67%
7	7 hours $\div$ 12 hours	58%
6	6 hours $\div$ 12 hours	50%
5	5 hours $\div$ 12 hours	42%
4	4 hours $\div$ 12 hours	33%
3	3 hours $\div$ 12 hours	25%
2	2 hours $\div$ 12 hours	17%
1	1 hours $\div$ 12 hours	8%

Falsification of Information

Falsification of information submitted by the student or parents for the purpose of receiving financial assistance may result in cancellation of assistance, require the student to pay back assistance received, and referral to the appropriate federal authorities. If students purposely give false or misleading information, they may be fined \$10,000, sent to prison, or both by the federal government.

The Financial Aid Office may be required to verify information provided on the FAFSA by requesting documentation of income or other types of financial assistance. In addition, if the Financial Aid Office has conflicting information or has reason to believe that student information may not be valid, further investigation will occur prior to financial aid being awarded and/or refunded.

Remedial / Developmental Courses

Remedial/Developmental Courses are defined as courses that are below college level but at least at the secondary (high school) education level. Once students attempt more than 30 remedial/developmental credits, the Financial Aid Office must begin limiting federal financial aid eligibility. Even if financial aid funds were not used for the prior coursework, the Financial Aid Office must limit federal financial aid eligibility. For example, if a student attempted 30 remedial/developmental credits and the following semester register for a total of 12 credits with 4 out of the 12 credits are considered remedial/developmental, the student's financial aid eligibility will be based on 8 credits (half-time).

Below are courses that LCC considers remedial/developmental:

Courses LCC Considers Remedial/Developmental			
AASD 104	AASD 105	AASD 110	ENGL 098
ENGL 099	ENGL 117	ENRI 105	ENRI 152
ENRI 162	MATH 097	MATH 098	MATH 105
MATH 106	MATH 107	MATH 109	MATH 112
MATH 114	READ 108	READ 114	READ 116
READ 150	READ 160	READ 165	READ 170
READ 175	SPEL 150	VCBL 150	WRIT 108
WRIT 110	WRIT 117		

To view current information, go to the [Financial Aid Policies](#) webpage.

Repeated Courses

Federal regulations limit the number of times a student may repeat a course while receiving financial aid for that course. This limit applies even if the student did not receive financial aid for earlier enrollments in the course. Note: Students must also adhere to the [College's Repeat Policy](#).

- A student may receive financial aid to repeat a previously passed course (1.0 or higher) one additional time.
- A student may receive financial aid when repeating a previously failed course (0.0F, 0.0U, ZF, or ZU) for as long as it takes the student to pass (1.0 or higher) the course.
- **A student who is taking a course that requires the student to enroll in the course multiple times to meet degree requirements may receive financial aid for these courses.**

COURSE	TITLE
AEET 280	Alternative Energy Practicum
ANTH 300	Applied Field Survey Methods
ARCH 295	Arch Independent Study
ARTS 132	Figure Drawing
BLDT 285	Residential Bldg Internship
CHDV 297	Child Dev Directed/Indep Study
CHSE 119	Community Health Career Topics
CHSE 139	Community Health Career Topics
CHSE 150	CHSE Directed/Indep Study
CITD 229	Special Topics in Database
CITS 285	IT Professional Internship
CIVL 225	Civil Tech Independent Study
DANC 102	Beginning Modern
DANC 103	Beginning Jazz
DENT 290	Directed Study
DMAC 246	Workshop: Video
ELTE 291	Electrical Project Lab
ENGL 295	Independent Study in English
ENGL 278	Writing the Novel
FIRE 280	Fire Directed Indep Study
GERO 191	Special Topics in Gerontology
HIST 295	Independent Study in History
HONR 295	Honors Independent Study
IDMS 150	Sonographic Directed Study
IDMS 295	DMS Special Topics
IRXT 123	Radiographic Independent Study
IRXT 295	Radiologic Tech Special Topics
LEGL 251	Legal Studies Independent Study
METD 170	Special Topics/Eng & Design
METD 295	Engineering/Design Project Lab
METM 170	Special Topics/Precision Mach
METM 171	Special Topics/Machining P/Z
METM 295	Precision Machine Project Lab
METS 170	Special Topics/Mechanical Sys
METS 290	Manufacturing Internship
METS 295	Mechanical Systems Project Lab
MSGE 150	Masg Special Topic
MSGE 170	Massage Directed/Indep Study
MUSC 101	Vocal Jazz & Pop Ensemble

COURSE	TITLE
MUSC 106	Private Music Lesson
MUSC 108	Concert Choir
MUSC 109	Studio Class
MUSC 122	Guitar Ensemble
MUSC 123	Jazz Ensemble
MUSC 124	Multi-Instrumental Music Ensem
MUSC 143	Beginning Piano I - Summer
MUSC 144	Beginning Piano I
MUSC 145	Beginning Piano II
MUSC 280	Private Composition
NURS 101	Nursing Directed Study
NURS 102	Nursing Directed Study
NURS 118	Special Topics in Nursing
NURS 119	Special Topics in Nursing
PARA 200	Paramedic Directed Study
PHIL 295	Ind Study in Philosophy
POLS 295	Ind Study in Political Science
THEA 224	Special Subjects in Theatre
WELD 170	Special Topics in Welding
WELD 191	Welding Project Lab
WELD 250	Welding Internship

Return of Title IV Funds (R2T4)

LCC is a non-attendance taking institution with the exception of programs that have licensure/accreditation requirements for attendance. Federal regulations require schools to perform a Return of Title IV Funds (R2T4) calculation for Title IV grant and/or loan recipients if one of the events in the table below occurs within the student's payment period. Note: The R2T4 calculation is independent of the institution's Refund Policy.

Event	Determination of Withdrawal	Type of Withdrawal	What is Used as Withdrawal Date
Student completely withdraws/is withdrawn from all courses	Date student withdrew from final course	Official Withdrawal	Last Date of Participation in an Academic Engagement*
Student withdraws/is withdrawn or drops from a course and the student's remaining courses have not yet begun	Date student withdrew or dropped from last active course	Official Withdrawal	Last Date of Participation in an Academic Engagement*
Student does not earn credit in at least one course and all failed courses were graded as unfinished	Date grade(s) post showing student did not earn credit in at least one course and all failed courses were graded as unfinished. The instructor provides the last date of participation when the grade for the course is submitted.	Unofficial Withdrawal	Last Date of Participation in an Academic Engagement*
Student is withdrawn for non-participation from a course that is part of a program that has licensure/accreditation requirements for attendance	Date student is withdrawn from last active course	Official Withdrawal	Last Date of Participation in an Academic Engagement*

Within 30 days of the determination of withdrawal, the R2T4 calculation must be completed to determine the amount of earned and unearned aid based on the student's withdrawal date*. The institution and/or the student owes the unearned aid to the federal government. LCC will return the institution's and the student's unearned aid to the federal government within 45 days of the date of determination of withdrawal, LCC will bill the student for the

unearned aid, and the student is responsible for repaying LCC. If the student was disbursed less than the revised award, the student may be due a post-withdrawal disbursement. LCC must notify the student in writing of eligibility for a post-withdrawal loan disbursement within thirty days of the determination of withdrawal. LCC must obtain the student's permission to disburse additional loan funds. The student may choose to decline some or all of the loan funds to avoid incurring additional debt. For grant funds, LCC will use post-withdrawal funds to pay any allowable institutional charges prior to refunding the remaining funds to the student.

Unearned aid will be returned within 45 days of the date of determination of withdrawal in the following order:

- Federal Direct Unsubsidized Loans
- Federal Direct Subsidized Loans
- Federal Direct PLUS Loans
- Federal Pell Grants
- Federal Iraq and Afghanistan Service Grant
- Federal SEOG

**Withdrawal Date*

- Official Withdrawal
 - When a student withdraws from all courses or withdraws/drops from a course and the student's remaining courses have not yet begun.
 - When an instructor in a program with licensure/accreditation requirements for taking attendance withdraws/drops a student from a course. This action must occur within 14 days of the student's last date of participation in an Academic Engagement*. The official withdrawal date used in the R2T4 calculation is the student's last date of participation in an Academic Engagement*.
- Unofficial Withdrawal
 - When a student does not earn credit in at least one course and all failed courses were graded as unfinished. The instructor reports the last date of participation in an Academic Engagement* with the grade, which is the unofficial withdrawal date.
 - The unofficial withdrawal date used in the R2T4 calculation is the student's last date of participation in an Academic Engagement*.

Calculating Earned Title IV Aid

To determine the total aid earned, LCC must divide the number of days the student attended during the semester by the total number of days the student was scheduled to attend for courses that were used to determine the student's financial aid. This percentage is multiplied by the total Title IV financial aid the student is awarded for the semester (disbursed and to be disbursed).

For example:

- Student attended 64 days.
- Student's schedule is 118 days in length.
- Student was awarded (disbursed and to be disbursed) Title IV aid of \$5000 for the semester.

- The percentage of total aid earned = 54.2% (64 days attended / 118 days)
- The earned Title IV financial aid = \$2710 (54.2% of total aid earned x \$5000 awarded)

**Definition of Academic Engagement*

Academic engagement is defined as active participation by a student in an instructional activity related to the student's course of study that includes, but is not limited to:

- Attending a synchronous class, lecture, recitation, or field or laboratory activity, physically or online, where there is an opportunity for interaction between the faculty and students;
- Submitting an academic assignment;
- Taking an assessment or an exam;
- Participating in an interactive tutorial, webinar, or other interactive computer-assisted instruction;
- Participating in a study group, group project, or an online discussion that is assigned by the school; or
- Interacting with faculty about academic matters.

Academic engagement does not include:

- Logging into an online class or tutorial without any further participation; or
- Participating in academic counseling or advisement.
- Comply with the provisions of any promissory note and all other agreements the student signs.
- Register for the number of credits required and maintain Satisfactory Academic Progress.
- Go to the [StarZone](#) on the second floor of the Gannon Building for personal assistance if the student has questions or does not understand the information provided.
- Budget and manage financial aid funds. Learn more at [Money Basics](#).

Student Academic Progress (SAP)

Federal regulations require the Financial Aid Office at LCC to monitor the progress (both qualitatively and quantitatively) of all students toward the completion of a degree through Satisfactory Academic Progress (SAP). SAP is separate from [LCC's Academic Standing](#). In order to receive federal funds, a student must meet SAP. If required, SAP also applies to state, institutional, and private funding.

To determine eligibility each semester, the Financial Aid Office will monitor and evaluate students' academic progress, regardless of whether aid was received. SAP is evaluated at the end of fall, spring, and summer semesters for all students who had academic history updates during the semester being evaluated. The evaluation will include all attempted credits, including earned credits (4.0-1.0 and Pass), failed credits (0.0F, 0.0U, ZF, and ZU), transfer credits, withdrawals, incompletes, audits, remedial, and repeated courses. Remedial coursework will be included in the determination of the GPA, completion ratio, and maximum timeframe. Repeated coursework will only include the highest grade earned in the GPA, but all attempts will be counted in the completion ratio with only one successful attempt counted as earned. All attempts will be used in the determination of maximum timeframe. Incomplete coursework will have no effect on the GPA; however, incompletes are counted as unearned in the determination of the completion ratio and maximum timeframe. Students who change majors or are pursuing a second degree will have SAP evaluated on all attempted credits, not just those applicable to their new major or second degree. Students will be notified of their SAP status via email and Banner Self Service after each evaluation period.

Note: SAP may be re-evaluated for students who have a Reinstated SAP status at any point of the semester if one of the following has occurred:

- Grade Change, except for Incompletes
- Change of Program occurs

SAP Standards

Student must meet all the following SAP standards to remain eligible for financial aid:

- Maintain a minimum cumulative GPA of a 2.0 in all credits attempted at LCC.
- Maintain a minimum cumulative completion ratio of 70% of all credits attempted.
- The total number of credits a student attempts cannot exceed 150% of the maximum credits required for the student's program of study.

Note: The table below represents a student pursuing a general associate degree requiring 63 credits. In order for the student to successfully complete their program within 150% of the credit hours required and maintain a cumulative completion ratio of 70%, the student must earn the following minimum credits.

Semester	Credits Earned	Credits Attempted	Completion Ratio	Maximum Timeframe
1	11	15	73%	25%
2	21	30	70%	50%
3	32	45	71%	75%
4	42	60	70%	100%
5	53	75	70%	125%
6	63	90	70%	150%

SAP Statuses

Good:

- Students who meet SAP are in Good status.

Warning:

- **New Students:** Students who have completed at least one course with a minimum 1.0 grade and do not meet SAP after the first semester of attendance.
- **Continuing Students:** Students in Good status who fail to meet SAP but completed at least one course with a minimum of 1.0 grade in the most recent semester of attendance and have not attempted more than 150% of the credit hours required for the program.

To receive financial aid, students in Financial Aid Warning status must electronically submit a Warning Contract. Warning status will only be effective for one semester. If the student does not meet SAP by the end of the warning semester, the student will be Suspended and ineligible for financial aid.

Suspended:

- Students in Good status who fail to meet SAP and did not earn a minimum 1.0 grade in the most recent semester of attendance or have attempted more than 150% of the credit hours required for the program.
- Students who do not meet SAP by the end of the warning period.
- Students who did not meet the terms of an approved appeal.

Students in Financial Aid Suspended status are denied financial aid until SAP is met or the Financial Aid Office approves an appeal.

Reinstated:

- Students who calculate to Suspended but have an approved appeal and taking courses that count towards their program of study.

Students in Financial Aid Reinstated status are approved for financial aid as long as the student completes each semester with a minimum semester GPA of 2.0, completes 100% of all credits attempted and is taking courses that count toward the program of study on record.

To view LCC's Academic Standing process, [click here](#).

Regaining Eligibility

- Students may regain financial aid eligibility by taking courses at their own expense or by using other funding sources until they meet the minimum GPA and Completion Ratio requirements; however, students who exceed 150% of the credit hours required for the program may only regain eligibility through an SAP Appeal.
- Students who are suspended and have extenuating circumstances may submit a SAP Appeal. Submission of an appeal does not guarantee reinstatement of financial aid eligibility. Examples of extenuating circumstances are:
 - o Death of an immediate family member
 - o Documented hospitalization or illness
 - o Major accident or illness of student or family member
 - o Being victim of a crime or unexpected disaster
 - o Change of major
 - o Pursuit of second degree
- The SAP Appeal is available online at the [Financial Aid Forms & Other Requirements Forms](#) webpage. Students may submit an appeal throughout the semester using their secure sign-in. Students will be notified of the appeal decision within three weeks of submission. Students may request a paper version of this form by contacting the Financial Aid Office
- Students with a denied appeal may continue to attend but must pay all tuition and fees.

Leave of Absence

A leave of absence (LOA) for financial aid purposes is a temporary interruption in a student's program of study that can impact their financial aid eligibility, potentially requiring repayment of funds or a reevaluation of aid.

Certain programs have capacity limitations, particularly concerning space in labs and clinical sites; therefore, there may be delays in accommodating students who have taken a leave of absence. Students who have taken a leave of absence may need to repeat courses or undergo skill evaluations to ensure they are current with necessary competencies. This will be determined on a case-by-case basis. Students are responsible for contacting the [Financial Aid Office](#) to determine the impact of a leave of absence on their financial aid status and eligibility.

Student Rules, Requirements, and Procedures

Academic Alert

At times you may hear from your Academic Success Coach (ASC) or the Learning Commons (tutoring) in response to an Academic Alert received from one of your instructors. This just means that your instructor recognizes that you may benefit from some additional support to be successful in your class and there are resources at LCC to help! Instructors send Academic Alerts when students are not passing a class, not turning in work, or if students have shared that they are struggling.

Academic Success Coaches (ASC) partner with faculty because they want you to have a great experience and get all the resources you need to be successful. If your ASC or instructor reaches out about a specific class or concern, please respond! They want to work with you to identify anything that could help you succeed.

For more information, view the [Academic Alerts](#) webpage.

Academic Standing

Only coursework completed at LCC is considered for determination of Academic Standing. The Academic Standing is determined at the end of each semester (Fall, Spring, Summer).

At LCC, students must maintain at least a 2.00 cumulative Grade Point Average (GPA) to remain in good academic standing.

- Students in Good Standing may enroll in up to 28 credits per semester.

Students with a cumulative GPA of a 3.5 or higher will be recognized by the College via the Dean's List and the President's List.

- Dean's List: GPA of 3.50 to 3.80 and completion of at least 6 credits for the calculated term.
 - Students with "I" (Incomplete) or "W" (Withdrawal) grades for the calculated term are not eligible for this list.
 - Calculations are based on LCC courses only (no transfer credits).
- President's List: GPA of 3.81 or above and completion of at least 6 credits for the calculated term.
 - Students with "I" (Incomplete) or "W" (Withdrawal) grades for the calculated term are not eligible for this list.
 - Calculations are based on LCC courses only (no transfer credits).

Students whose cumulative GPA falls below 2.0 will be placed on Probation 1, Probation 2, or Probation 3 standing, which indicate unsatisfactory academic progress. While on a Probationary standing, the student may have limits on registration for courses. In addition, students on a Probationary standing may be required to meet with an Academic Success Coach and sign a Success Contract prior to registering. Students can return to Good Standing by earning a cumulative GPA of 2.0 or higher.

- Probation 1: Generally, the first semester with a Cumulative GPA below 2.0
 - Registration is limited to enrolling in no more than 12 credits per semester.
 - If the student has already registered for more than 12 credits prior to the processing of Academic Standing, the Registrar's Office will drop the last registered course(s) that brought the students over the credit limit.
 - Students are encouraged to meet with an Academic Advisor and Academic Success Coach.
- Probation 2: Generally, the second continuous semester with a Cumulative GPA below 2.0
 - Registration is limited to enrolling in no more than 8 credits per semester.
 - If the student has already registered for more than 8 credits prior to the processing of Academic Standing, the Registrar's Office will drop the last registered course(s) that brought the student over the credit limit.
 - Students are encouraged to meet with an Academic Success Coach, complete an Academic Success Self-Assessment, and share the Academic Success Self-Assessment with the Success Coach.
- Probation 3: Generally, the third continuous semester with a Cumulative GPA below a 2.0
 - Registration is limited to enrolling no more than 4 credits per semester.
 - If the student has already registered for more than 4 credits prior to the processing of Academic Standing, the Registrar's Office will drop the last registered course(s) that brought the student over the credit limit.
 - Students are required to meet with an Academic Success Coach, complete an Academic Success Self-Assessment and share the Academic Success Self-Assessment with their Success Coach.
 - Students also are encouraged to meet with an Academic Advisor.

ACADEMIC STANDING RULES

Starting Status: 00 (Good Standing [start])

Cumulative GPA	Cumulative GPA Hours (Credits)	Next Status
0.0 – 4.0	0.0 – 5.999	Good Standing
2.0 – 4.0	6.0 – 999	Good Standing
0.0 – 1.99	6.0 – 999	Probation 1

Starting Status: GS (Good Standing [continue])

Cumulative GPA	Cumulative GPA Hours (Credits)	Next Status
0.0 – 4.0	0.0 – 5.999	Good Standing
2.0 – 4.0	6.0 – 999	Good Standing
0.0 – 1.99	6.0 – 999	Probation 1

Starting Status: Probation 1

Cumulative GPA	Cumulative GPA Hours (Credits)	Next Status
2.0 – 4.0	0.0 – 999	Good Standing
1.5 – 1.99	0.0 – 17.999	Probation 1
0.0 – 1.49	6 – 17.999	Probation 2
0.0 – 1.49	0.0 – 5.999	Probation 1
1.75 – 1.99	18 – 999	Probation 1
0.0 – 1.74	18 – 999	Probation 2

Starting Status: Probation 2

Cumulative GPA	Cumulative GPA Hours (Credits)	Next Status
2.0 – 4.0	6 – 29.999	Good Standing
1.75 – 1.99	6 – 29.999	Probation 1
0.0 – 1.24	6 – 29.999	Probation 3
1.25 – 1.74	6 – 29.999	Probation 2
2.0 – 4.0	30 – 999	Good Standing
1.75 – 1.99	30 – 59.999	Probation 1
1.0 – 1.74	30 – 59.999	Probation 2
0.0 – 0.99	30 – 59.999	Probation 3
1.75- 1.99	60 – 999	Probation 2
0.0 – 1.74	60 – 999	Probation 3

Starting Status: Probation 3

Cumulative GPA	Cumulative GPA Hours (Credits)	Next Status
2.0 – 4.0	0.0 – 29.999	Good Standing
0.0 – 1.49	0.0 – 29.999	Probation 3
1.50 – 1.99	0.0 – 29.999	Probation 2
2.0 – 4.0	30 – 59.999	Good Standing
1.50 – 1.99	30 – 59.999	Probation 2
0.0 – 1.49	30 – 59.999	Probation 3
2.0 – 4.0	60 – 999	Good Standing
1.75 – 1.99	60 – 999	Probation 2
0.0 – 1.74	60 – 999	Probation 3

Academic Standing is based on “Cumulative GPA Hours” which include all CR (Credit Level) grades except the following:

00A	S	WP	I*	X*
FA	TR	A*	N*	Z
I	TRL	B*	P*	Z*
N	TRP	C*	R*	
P	W	D*	S*	
R	WF	F*	X	

*Only GPA Hours are used, so “P” credits do not count in Academic Standing.

This information is associated with the LCC Board Policy 3.040 (Academic Standing and the [Standard Operating Procedure RO.021 – Academic Standing](#)).

Accommodations for Students with Documented Disabilities

In compliance with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, LCC does not discriminate against qualified students with disabilities.

Students with disabilities may contact the Center for Student Access to determine reasonable accommodations that can be granted.

Students should contact the ADA/504 Coordinator at the Center for Student Access:

[Center for Student Access](#)

Gannon Building - StarZone

(517) 483-5323

[Email](mailto:lcc-accessibility@lcc.edu) (lcc-accessibility@lcc.edu)

Admission to the College

LCC is an open-admission community college. Certain programs, however, require a separate selective admissions application. The selective admissions application is in addition to the regular admissions application for the College.

Selective Admissions

Admission to selective admission programs is on a competitive basis, and these programs have program admission requirements beyond those required for admission to the College. Admission to LCC does not guarantee admission to a selective admission program.

Students wishing to apply for admission to a selective admission program should visit the [Selective Admissions Programs webpage](#) or contact the Selective Admissions office at 517-483-1182 or [email](#).

There is a \$20 non-refundable application fee to a selective admission program with exception for Neurodiagnostic Technology and Radiologic Technology/MRI (no application fee).

International Admissions

F, J, M Visa Holders

International students are students admitted to the United States on an F, J, or M visa to study at LCC as well as international students interested in transferring to LCC from another US institution and international students applying to the [English for Speakers of Other Languages Program at LCC](#).

- **F Student Visa:** for study at an accredited U.S. college or university or to study English at an English language institute
- **J Exchange Visa:** for participation in an exchange program, including high school and university study
- **M Student Visa:** for non-academic or vocational study or training in the United States

Additional information can be found on the [M1 and F1 Admissions](#) webpage.

Other Visa not F-1/M-1

For individuals who wish to study at LCC while holding a non-resident status other than M-1 or F-1, additional information can be found on the [Other Visa not F-1/M-1](#) webpage.

International Guest Student

For individuals with an F-1 or M-1 visa who currently attend another US college/university and intend to take a small number of classes at LCC (less than full-time enrollment), additional information can be found on the [International Guest Students](#) webpage.

For questions regarding any International Admissions, please view the [International Admissions Forms and FAQ](#) webpage, contact the [StarZone](#) at 517-483-1200 option 2 (toll-free 800-644-4522).

Computing Grade Point Average

A student's grade point average (GPA) is determined on the following basis:

Numerical Grade	GPA Points
4.0	4.0
3.5	3.5
3.0	3.0
2.5	2.5
2.0	2.0
1.5	1.5
1.0	1.0
0.0F	0.0
0.0U	0.0

“00A,” “0.0FA,” “0.0UA,” “FA,” “I,” “NR,” “NS,” “P,” “TR,” “TRL,” “TRP,” “W,” “X,” “ZF,” and “ZU” grades are not included in calculating grade point averages.

For example, a student who receives five credit hours of 4.0, five credit hours of 3.0 and five credit hours of 2.0 would have a total of 45 GPA points. To compute the grade point average (GPA), the number of GPA points is divided by GPA hours (credits) taken during the semester. The student in this example would have a 3.0 GPA (45 GPA points/15 credits).

Enrollment Verification and Student Attendance

LCC is not an attendance-taking institution with the exception of Eaton Regional Educational Service Agency (ERESA), Clinton County Regional Education Service Agency (CCRESA), and programs that have licensure and/or accreditation requirements for attendance.

During the first 2 weeks of each part of term, or by the 8th day of variable terms less than 8 weeks, faculty are required to determine if the student has actively engaged in an instructional activity related to the student's course. Faculty must notify the Registrar's Office of any student who has not actively engaged in an instructional activity as noted above.

Academic engagement is defined as active participation by a student in an instructional activity related to the student's course that includes, but is not limited to:

- Attending a synchronous class, lecture, recitation, or field or laboratory activity, physically or online, where there is an opportunity for interaction between the faculty and students;
- Submitting an academic assignment;
- Taking an assessment or an exam;
- Participating in an interactive tutorial, webinar, or other interactive computer-assisted instruction;
- Participating in a study group, group project, or an online discussion that is assigned by the school; or
- Interacting with faculty about academic matters.

Academic engagement does not include:

- Logging into an online class or tutorial without any further engagement; or
- Participating in academic counseling or advising.

For licensure/accreditation requirements:

- For programs which require attendance due to 3rd-party accreditation, faculty responsible for those courses will take attendance in accordance with the accreditor's requirements.

If a student is dropped from a course through Enrollment Verification, they will receive a 100% refund of tuition and refundable fees. However, the Financial Aid Office will recalculate the student's financial aid eligibility and adjust awards as necessary for any change in enrollment status for the semester. For more information, students should contact the [Financial Aid Office](#); Students who receive veteran benefits should contact the [Veteran Services Office](#).

After the first 2 weeks of the part of term, or by the 8th day of variable terms less than 8 weeks, if the faculty identifies a student as having not engaged in the course, the faculty must complete Enrollment Verification in the student information system (Banner) indicating that the student never engaged in an instructional activity.

Initial attendance and participation records are retained in the instructor's grade book and/or in the D2L system and Banner system according to the [Academic Records Policy \(Board Policy 3.030\)](#). Additional information can be obtained by viewing the Standard Operating Procedure, [Enrollment Verification and Student Attendance, RO.026](#).

Extra Credit

Extra credit is defined as any opportunity for a student to raise a course grade that is not included in the percentages stated in the Methods of Evaluating Student Achievement/Progress in the section syllabus. Each department will determine for each of their courses and state in the course's syllabus whether or not extra credit may be offered.

In courses where extra credit may be offered:

- Individual instructors will determine whether or not there will be extra credit opportunities in their sections.
- Instructors' extra credit guidelines will be stated in their section syllabi.

In sections where there are extra credit opportunities:

- They must involve student work that is directly related to the Student Learning Outcomes of the course.
- They may be used to raise a student's final grade a maximum of 0.5 on LCC's 4.0 scale.
- All students in a section must have the possibility of earning extra credit; however, instructors may set eligibility criteria such as completion of all homework assignments or tests. These eligibility criteria may not be connected to a student's cumulative course grade and must be provided to students far enough in advance for all students to have the opportunity to satisfy the criteria.
- Detailed information, including any eligibility criteria, must be distributed in advance of each opportunity.

Final Grades

Final grades are available on the web to students within 5 business days after the close of each semester.

General Education Requirements

LCC is committed to helping its graduates gain 4 valuable [Essential Learning Outcomes](#): knowledge of human cultures and the physical and natural world, intellectual and practical skills, personal and social responsibility, and integrated and applied learning. With these strengths, our graduates will be better equipped and empowered to complete their goals while becoming engaged global citizens.

All associate degrees therefore incorporate LCC General Education requirements fostering the capabilities and the flexibility that employers look for, and that citizens of the 21st century need. Depending on their chosen degrees, students will successfully complete the options in the appropriate Transfer Degrees (MTA) tab or Applied Degrees tab of LCC [General Education](#).

Appropriate transfer credit from other colleges and universities, along with credit from the list below, is applicable toward LCC General Education requirements for all degrees, including degrees that otherwise would require completion of the full Michigan Transfer Agreement (MTA).

- Advanced Placement (AP)
- College-Level Examination Program (CLEP)
- DANTES Subject Standardized Test (DSST)
- International Baccalaureate (IB)
- Credit by Examination
- Credit for Experiential Learning

However, due to statewide rules, areas of prior learning such as CLEP, DSST, IB, Credit by Examination, and Credit for Experiential Learning are not applicable to the MTA endorsement at this time.

General Rules and Guidelines

LCC is an institution of educational excellence. Members of the LCC community strive to create an environment that contributes to academic success and personal growth. All members of LCC's community are responsible for creating and respecting conditions both in the classroom and on campus that encourage teaching and learning in a positive atmosphere.

Grade Changes

Students may petition an instructor for a grade change of a final grade in a course. A student's final grade in a course may be changed by the course instructor. Grade changes by instructors are initiated by submitting a signed Grade Change Form to the departmental office for review and approval by the departmental chair or lead faculty member. The completed Grade Change Form is then forwarded by the appropriate academic area to the Registrar's Office for updating the student's academic record.

If a grade change request is denied, the student may review the [final grade appeal process](#).

Granting Additional Associate Degrees

Any student who has earned an associate degree from LCC or any other accredited community college may be awarded additional degrees providing that they meet the following institutional graduation requirements:

- Complete a program of study approved by the College and consisting of a minimum of 60 semester credits with no more than 10 percent of these credits acquired on the pass/fail (P/Z) grading system. (See [Degree and Certificate Program Pathways](#) webpage for more information.)
- Maintain a cumulative grade point average of 2.0 or above.
- Earn toward the program of study at least 15 semester credits directly from LCC (except for approved consortial programs taught primary by partner schools).
- Satisfy all general and specific requirements of Lansing Community College.
- LCC'S General Education – Applied Degrees requirements are satisfied by virtue of the student earning the first associate degree.
- LCC's General Education requirements are waived by the acceptance of the completed Michigan Transfer Agreement from an accredited community college or university, regardless of whether an associate degree or higher has been completed.
- No additional degree will be granted in the same program of study in which a previous degree was earned.
- The following CANNOT be used for degree requirements:
 - Courses numbered below 100.
 - Courses in Mathematics or Statistics that are not listed on the [LCC General Education Requirements](#) webpage.
 - Courses in English or Writing numbered below 118.
 - Courses in English as a Second Language.
 - Courses in Reading.
 - Courses in non-technical Vocabulary.
 - Courses in Academic Experience numbered other than 100 or 101.
 - Courses in Student Development numbered other than 101.
- Submit an application for graduation to the Registrar's Office the semester the program requirements are completed, on or before the deadline.

Note: Students may not follow program pathways which are expired or whose catalog year predates their first semester of enrollment as shown on their LCC web transcript.

Granting an Associate Degree When the Student has an Earned Bachelor's Degree or Higher Degree

A student who has earned a bachelor's degree or higher degree from an accredited college or university may be awarded an associate degree at Lansing Community College (LCC) subject to the following requirements:

1. All requirements for the associate degree must be met.
2. The LCC cumulative grade point average must be a 2.0 or above.
3. A minimum of 15 semester credits toward the program of study must be completed directly from LCC (except for approved consortial programs taught primarily by partner schools).
4. The College's General Education requirements are satisfied by virtue of the student earning the bachelor's degree or higher degree.
5. The following CANNOT be used for degree requirements:
 - a. courses numbered below 100
 - b. courses in Mathematics or Statistics that are not listed on the Transfer Degrees (MTA) tab or Applied Degrees tab of LCC [General Education](#).
 - c. courses in English or Writing numbered below 118
 - d. courses in English as a Second Language
 - e. courses in Reading
 - f. courses in non-technical Vocabulary
 - g. courses in Academic Experience numbered other than 100 or 101
 - h. courses in Student Development numbered other than 101
6. Exceptions to the above should be appealed to the Academic Affairs Office.

Note: Students may not be granted degrees whose program pathways are expired or whose catalog year predates their first semester of enrollment as shown on their LCC web transcript.

Granting Exceptions to the Institutional General Education Requirements for Associate Degrees

General Education exceptions may be granted when courses outside the approved list satisfy the specific General Education requirement(s). Examples include appropriate Lansing Community College (LCC) term/quarter courses or transfer credits without an exact LCC course equivalent.

A student who wishes to formally appeal a determination that the General Education requirement for an Associate degree has not been met should appeal to Academic Affairs. Academic Affairs will apply the following parameters in making a determination on whether an exception to current policy is warranted:

1. A College error does not automatically warrant a waiver of a published graduation requirement.
2. The College does not waive a General Education requirement, though a substitution might be appropriate.

The Academic Affairs Office will inform the student and the Registrar's Office in writing of either the approval or denial of the exception.

The final decision for granting exceptions to the institutional General Education requirements rests with the Academic Affairs Office.

Graduation

Graduation Requirements, Certificates & Degrees

Information for the requirements needed to be awarded a certificate or degree, including General Education requirements, and the application process can be found on the [Graduation Requirements, Certificates and Degrees](#) webpage. In addition, information is provided on the process to request an accommodation for students with disabilities. For more information, go to the [Graduation](#) webpage.

Applying for Graduation:

When all requirements have been met, the student will:

1. Complete the [Application for Degree and Certificates](#) form.
 - Only pathway/curricular guides with current effective dates can be used.
 - You may not use a pathway/curricular guide that predates your first semester of enrollment.
 - For questions, contact the department indicated on the pathway/curricular guide.

- Attach a signed Course Substitution and Waiver Authorization form, if you have course substitutions and/or waivers that are not indicated in Degree Works.
2. The outcome of the student's request will be sent to the student's LCC email.
- The application will be denied if:
 - Transfer courses that are required for your program are not posted to your academic record.
 - There are incomplete grades on courses required for your program.

Commencement

Students who have earned an associate degree or a certificate from the previous Summer or Fall, as well as students who are approved for an associate degree or certificate for Spring may participate in the Commencement Ceremony. Eligible students will be notified in mid-April.

The Commencement Ceremony is held at the Jack Breslin Student Events Center, Michigan State University in early May. The Breslin Center has a clear bag policy and has prohibited items. For a full list of items that are permitted, along with the list of items that are prohibited, please visit [The Breslin Center Bag Policy](#).

If you have any questions regarding the Commencement Ceremony, please contact the Registrar's Office at 517-483-1200.

Cap & Gown

All eligible students will be notified via their LCC student email mid-April with details on how to participate in the upcoming annual spring commencement ceremony and pick up their cap and gown.

Graduation Honors

Graduation honors are granted to students who are awarded an associate degree and have completed 40 semester credit hours of work at LCC. Students who maintain a grade point average stated below will be awarded the following honors at graduation:

Grade Point Average (GPA)	Honors Awarded at Graduation
3.75 – 4.00	Summa Cum Laude (with highest honors)
3.50 – 3.74	Magna Cum Laude (with high honors)
3.25 – 3.49	Cum Laude (with honors)

Graduation Replacements

To order a replacement diploma or certificate, or to order a tassel or honor cord, go to the Student Graduation store in [Marketplace](#). If you prefer to print and mail the [Graduation Replacement Request](#), the form is available on the Registrar Forms webpage. There is a fee for each item.

Guest Students

A guest student studies primarily at another college or university (referred to as the home institution) and wishes to take a limited number of courses at LCC to complete their program from their home institution.

Applicants who have taken courses or earned degrees from other colleges or universities should apply online, submit transcripts to LCC, and meet with an advisor to discuss credit equivalencies.

High School Dual Enrollment & Home School Program Criteria

Dual Enrollment provides an opportunity for qualified high school students to earn college credit while working toward their high school diploma. High school credit may or may not be granted according to the discretion of the participating student's high school. Dual enrollment affords students educational advancement in specific areas where unusual ability and interest are displayed, especially in courses and academic areas not available in the student's high school.

Note: Some colleges/universities will not accept college credit for college courses used to meet high school graduation requirements.

High School Programming

LCC offers high school-based programs, which include [High School Credit by Exam](#), [High School Advantage](#), Career and Technical Education (ERESA and CCRESA), as well as [HOPE and Promise Scholarships](#). For more information, call 517-483-9707.

How Students Can Satisfy LCC General Education Requirements

For more information, see the Transfer Degrees (MTA) tab or Applied Degrees tab of Lansing Community College (LCC) [General Education](#).

All students must fulfill LCC General Education requirements in order to be awarded an associate degree. The ways in which students can satisfy these requirements are presented below. Because these requirements may be revised each academic year, students should consult an Academic Advisor to stay informed of current options for satisfying General Education requirements. Students should also be aware that not all courses that satisfy

General Education – Applied Degrees requirements transfer to all colleges. Students planning to transfer should see an Academic Advisor before enrolling in any course.

For degrees requiring General Education – Applied Degrees, students can satisfy the requirements in any of the following ways:

1. Achieve grades of 2.0 or higher in approved General Education – Applied Degrees courses. ([See the General Education webpage for the full list of options.](#))
2. Achieve a grade of 2.0 or higher on a comprehensive examination, where appropriate and available, for an approved course in a General Education area. Upon successfully completing the exam, the student receives transfer credit for the course. (A comprehensive exam is an exam for which the student completes an application, pays the \$150 processing fee, and may receive transfer credit on their LCC transcript. See [Credit by Examination](#) procedure.)
3. Present evidence of completed Michigan Transfer Agreement from an accredited Michigan college or university.
4. Present evidence of an earned associate degree or higher degree from an accredited college or university.
5. If no degree has been earned, transfer in comparable course credit for an approved course from an accredited institution. General credit does not apply unless use of the general credit is approved by the Provost or designee.
6. Establish appropriate course credit through the Advanced Placement Examination (AP), College Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), International Baccalaureate (IB), and/or others as recognized by LCC.
7. Establish credit for an approved course through the Experiential Learning Process. (See [Credit for Experiential Learning.](#))

For degrees requiring the Michigan Transfer Agreement (MTA), students can satisfy the requirements in any of the following ways:

1. Achieve grades of 2.0 or higher in approved MTA courses. ([See the General Education webpage, specifically the MTA tab, for a full list of courses.](#))
2. Achieve a grade of 2.0 or higher on a comprehensive examination, where appropriate and available, for an approved course in an MTA area. Upon successfully completing the exam, the student receives transfer credit for the course. (A comprehensive exam is an exam for which the student completes an application, pays the \$150 processing fee, and may receive transfer credit on their LCC transcript. ([See Credit by Examination procedure.](#))
3. Present evidence of completed Michigan Transfer Agreement from an accredited Michigan college or university.
4. Present evidence of an earned bachelor's degree or higher degree from an accredited college or university.
5. If no degree has been earned, transfer in comparable course credit for an approved course from an accredited institution. General credit does not apply unless approved by the Provost or designee.

- a. Establish appropriate course credit through the Advanced Placement Examination (AP), College Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), International Baccalaureate (IB), credit by examination, or credit for experiential learning. Non-AP areas of prior learning – for example, College Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), International Baccalaureate (IB), credit by examination, and credit for experiential learning – may satisfy LCC General Education requirements but are not applicable to the MTA at this time.

The following do NOT satisfy General Education requirements:

- LCC placement test scores
- A waiver of any course that is also a General Education course
- Completion of higher-level courses that are not approved General Education courses.

How to Apply for an Associate Degree or Certificate

Prior to submitting an application for an Associate Degree, Certificate of Achievement, or Certificate of Completion, students should consult with an advisor to review progress toward completing requirements. Any substitutions or waivers for program requirements must be approved on an authorized form signed by the department offering the program. Substitutions and waivers are not allowed for institutional degree and certificate requirements. (See [Institutional Requirements for Associate Degrees procedure](#) and [Institutional Requirements for Certificates of Achievement and Certificates of Completion procedure](#) under the Graduation Requirements, Certificates & Degrees header.) Students apply by the deadline the semester they complete the program requirements. Information and the applications are located online at the [Graduation webpage](#).

Procedures are as follows:

1. Complete and submit an Application for Associate Degree, Certificate of Achievement, or Certificate of Completion to the Registrar's Office. These applications are available on the [Graduation webpage](#). If substitutions and/or waivers have been approved and are not indicated in Degree Works, a Course Substitution and Waiver Authorization form must be attached to the application when submitted or the application will be denied.

Note: Students may not be granted associate degrees or certificates whose program pathways are expired or whose catalog year predates their first semester of enrollment as shown on their LCC web transcript. The requirements must be met by the semester the program pathway expires.

2. Once the audit for the associate degree or certificate has been completed, the Registrar's Office will send a notification via LCC email indicating whether the associate degree or certificate has been approved or denied.
3. Once awarded, the LCC transcript will show the degree or certificate earned.

4. Diplomas are mailed to students during the semester after degrees and certificates have been awarded.

Graduation Requirements for Associate Degrees

To receive an associate degree from Lansing Community College (LCC), a student must meet the following institutional graduation requirements:

1. Complete a program of study approved by the College and consisting of a minimum of 60 credits. (See [Degree and Certificate Program Pathways webpage](#)).
2. Maintain a cumulative grade point average of 2.0 or above.
3. Earn toward the program of study at least 15 semester credits directly from LCC (except for approved consortial programs taught primarily by partner schools).
4. Satisfy the LCC General Education Requirements for the specific program of study.
5. Satisfy all general and specific requirements of LCC.
6. No additional associate degree will be granted in the same program of study in which a previous associate degree was earned.
7. The following CANNOT be used for degree requirements:
 - a) courses numbered below 100;
 - b) courses in Mathematics or Statistics that are not listed on the Transfer Degrees (MTA) tab or Applied Degrees tab of LCC [General Education](#);
 - c) courses in English or Writing numbered below 118;
 - d) courses in English as a Second Language;
 - e) courses in Reading;
 - f) courses in non-technical Vocabulary;
 - g) courses in Academic Experience numbered other than 100 or 101;
 - h) courses in Student Development numbered other than 101.
8. Submit an application for graduation to the Registrar's Office the semester the program requirements are completed, on or before the deadline.

Note: Students may not be granted degrees whose program pathways are expired or whose catalog year predates their first semester of enrollment as shown on their LCC web transcript.

Graduation Requirements for Certificates of Achievement and Certificates of Completion

To receive a Certificate of Achievement or Certificate of Completion from Lansing Community College (LCC), a student must meet the following institutional graduation requirements:

1. Complete a program of study approved by the College and consisting of a minimum of 30 semester credits for a Certificate of Achievement and fewer than 30 semester credits for a Certificate of Completion. (See [Degree and Certificate Program Pathways webpage](#)).
2. For certificates of the 2024-25 catalog year onward, earn a grade of 2.0 or above in each course required for the certificate.
 - a) For certificates of the 2023-2024 catalog year and prior, maintaining a grade point average of 2.0 or above in all courses required for the certificate.
3. Satisfy any specific requirements on the program pathway. These may include, but are not limited to, maintaining a cumulative grade point average in all courses taken at LCC, higher grade point minimums in specific courses, selective admissions, or other departmental requirements.
4. Earn toward the program of study of a Certificate of Achievement at least 7.5 semester credits, or toward the program of study of a Certificate of Completion at least 25% of the semester credits, directly from LCC (except for approved consortial programs taught primarily by partner schools). Credits earned through comprehensive exams will not be counted toward this requirement.
5. Satisfy all general and specific requirements of LCC.
6. No additional certificate will be granted in the same program of study in which a previous certificate was earned.
7. The following CANNOT be used for certificate requirements:
 - a) courses numbered below 100;
 - b) courses in Mathematics or Statistics that are not listed on the Transfer Degrees (MTA) tab or Applied Degrees tab of LCC [General Education](#);
 - c) courses in English or Writing numbered below 118;
 - d) courses in English as a Second Language;
 - e) courses in Reading;
 - f) courses in non-technical Vocabulary;
 - g) courses in Academic Experience numbered other than 100 or 101;
 - h) courses in Student Development numbered other than 101.
8. Submit an application for graduation to the Registrar's Office the semester the program requirements are completed, on or before the deadline.

Note: Students may not be granted degrees whose program pathways are expired or whose catalog year predates their first semester of enrollment as shown on their LCC web transcript.

Incoming Transfer Student Information

Evaluation and Acceptance of Transfer Credits from Other Institutions

LCC welcomes students who have already successfully completed college-level course work. Accordingly, the college will allow for the transfer and acceptance of credit from other accredited institutions of higher education.

Incoming Transfer Credits

The information below describes alternative, or accelerated degree completion options to obtain credit toward a degree or certificate, including transfer credit, credit for licensure/certification, credit for prior learning, and credits earned during military service. For general rules, view the [Transfer Credit - Evaluation and Acceptance, RO.004](#), Standard Operating Procedure, which is associated with the [LCC Board Policy 3.100](#).

Credit for Licensure, Certification, and Other Credentials

LCC recognizes that current licensure, certification, or other credentials represents earned credentials for which credit may be granted. Therefore, the college assesses national and state licensures and certifications as part of its credentialing function. Any student who has applied to LCC may apply for licensure or certification credit evaluation. Please visit the [Licensure, Certification, and Other Credentials](#) webpage for the list of accepted equivalencies.

Credits Earned in the U.S. Armed Forces

LCC will evaluate the student's military training and coursework for possible award of transfer credit after the student has been admitted to the College and the official Joint Services Transcript has been received. For general rules, view the [Transfer Credit Earned in the U.S. Armed Forces](#) Standard Operating Procedure.

Credit Earned at Foreign Educational Institution

Current students requesting credit for credits earned at foreign institutions will need to submit their international transcripts to a [National Association of Credential Evaluation Services \(NACES\) member](#) for evaluation before having it sent to LCC.

Credit Earned by Examination

To allow students who may have previous knowledge or experience to prove competency when appropriate and gain credit by comprehensive or other applicable exams. For general rules, view the [Credit by Examination](#) Standard Operating Procedure.

Credit for Experiential Learning

LCC is in agreement that learning outside the classroom is valid. Therefore, it is the College's function to assess extra-institutional learning and experience as part of its credentialing responsibility.

Current students requesting credit for previously acquired knowledge and learning experience will need to complete an Experiential Learning Application. For more information, go to the [Credit for Prior Learning](#) webpage.

Credits Earned from National Normed Exams

LCC recognizes students may have previous knowledge or experience as measured by Nationally Normed Exams. Students may receive credit for LCC coursework completed if minimum score requirements are met. Credits can be granted from the following National Normed Exams: Advanced Placement Examination (AP), College Level Examination Program (CLEP), DANTES Subject Standardized Tests (DSST), and International Baccalaureate Program (IB). For general rules, please view the [Transfer Credit Earned from Nationally Normed Exams](#) Standard Operating Procedure.

General Credits

Due to curricular, financial aid, and Veteran's implications, LCC will not automatically award General Credits (non-equivalent 000) during the initial evaluation of incoming transcripts. All General Credit 000 equivalencies will be removed from the College webpage.

Requests for awarding general credits are allowable only for the following purposes:

- General Associate degree elective(s) which can be requested by a general academic advisor, a program advisor, or Academic Affairs Project Manager (AAPM).
- Specific program requirement(s) which can only be requested by a program advisor or AAPM.
- General education requirement(s) which can only be requested by AAPM.

In addition, please note the following provisos:

- With the exception of Prior Learning Assessments (PLA), general credits must be from a regionally accredited institution and must be college-level (non-developmental).
- Only general credits can used for program substitutions for a maximum of 12 credits unless approved by Academic Affairs or if the credits are being applied to programs that allow more than 12 general credits, such as General Associate GA, Agricultural Technology AAS, Veterinary Technology AAS, Nursing – RN Option AAS, etc.

The requirement(s) the general credits are intended to satisfy.

- For programs other than the General Associate degree, a substitution form also will be needed per Standard Operating Procedure "[Program-Level Course Substitutions and Waivers-RO.007](#)".

Outgoing Transfer Students

Students planning to transfer to another institution should be aware that universities and colleges differ widely in the courses they accept for transfer. A student intending to transfer should follow the transfer guide of the institution to which they intend to enroll. Transfer guides are not LCC degree guides. In order to achieve maximum transferability of courses, students should consult with an academic advisor. Visit the [Transfer Center](#) webpage for more information about transfer programs.

Student Bereavement Resources

LCC recognizes that students may experience the loss of a loved one while taking classes. If you have lost someone while actively enrolled in courses, you should consider the following:

- Reach out to your instructor(s) using their preferred method of contact to notify them if you need to miss class or coursework for bereavement purposes, such as attending a funeral, wake, memorial service, bereavement counseling, or other bereavement-related event(s). Contact information for your instructor(s) can be found on your course syllabus.
- If requested by your instructor(s), please be prepared to provide documentation of your loss (e.g., an obituary or funeral program).
- Work with your instructor(s) to determine if you are able to make up any missed coursework. Faculty are encouraged to be sensitive to a student's grief. However, it is at the discretion of your instructor(s) to allow you to make up any missed coursework.
- Contact your [Academic Success Coach](#) if you need assistance with reaching out to your instructors, making a plan to catch up in your course(s), withdrawing from courses, or connecting to on- or off-campus resources to assist you during this time.
- LCC offers free and confidential emotional support counseling by appointment. [LCC Counselors](#) are state-licensed, professional counselors who can help you with managing your loss.

For questions, please contact the Registrar's Office at 517-483-1200, option 2.

Student Due Process

Students have constitutional rights of due process. As such, in cases of allegations of violations of the Student Code of Conduct levied against them, they are entitled to receive proper notice of the charges against them and the opportunity to present their side at a hearing.

Student General Rules, Guidelines, and Code of Conduct

Students must know and abide by the Student General Rules, Guidelines, and Code of Conduct. The Office of Student Compliance is charged with addressing allegations of violations of the Student General Rules, Guidelines, and Code of Conduct.

View [Student General Rules and Guidelines, and Code of Conduct](#) in its entire form.

Student Records Guidelines & Procedures

LCC shall not distribute student lists to non-college agencies except as required by law.

In compliance with the Family Educational Rights and Privacy Act of 1974, as amended, LCC provides the following information:

1. Students and/or a parent or legal guardian of a student, if the student is a dependent, have the right to access, inspect, and review all educational records directly related to the student. Upon presentation of pictured identification and a written request from the student to the Registrar's Office, access to all educational records shall be provided within a reasonable period of time (not to exceed 45 days from the date the request is submitted).
2. Educational records include all information maintained by the College that is directly related to the student with the exception of:
 - a) Financial records of the student's parents.
 - b) Confidential letters of recommendation prior to January 1, 1975.
 - c) Confidential letters and recommendations associated with admissions, application for employment, or receipt of an honor or honorary recognition to which students have waived rights of inspection and review.
 - d) Educational records containing information about more than one student. Note that the College must permit access to that part of the record which pertains only to the inquiring student.
 - e) Reports made by physicians, psychiatrists, or psychologists in connection with their treatment.
 - f) Records of instructional, supervisory, administrative, and certain educational personnel which are in the sole possession of the originator.
 - g) Records of the law enforcement unit of the College if compiled for law enforcement purposes.
 - h) Records which relate exclusively to individuals in their capacity as College employees.
3. Directory information may be released at the discretion of College officials for any student who has not submitted a completed Request to Prevent Disclosure of Directory Information form to the StarZone. The disclosure prevention form remains in effect until the student provides a written release to the Registrar's Office. Directory information includes but is not limited to the following:
 - a) Name of student
 - b) Dates of attendance

- c) Enrollment status
- d) Awards, degrees, or certificates received
- e) Participation in officially recognized activities
- f) Sport, weight, and height of members of athletic teams
- g) Previous educational agency or institution attended
- h) LCC email address

Copies of the Request to Prevent Disclosure of Directory Information form and the Family Educational Rights and Privacy Act are available upon request in the StarZone and the Office of the Dean of Student Affairs.

4. LCC prohibits the release of personally identifiable information other than directory information from educational records without the student's written consent.

Exceptions to this statement are listed below:

- a) Academic and administrative officials, staff, and persons who have entered into a partnership or contract with LCC and whom the College has determined to have legitimate educational interest. Officials are defined as faculty, administration, support and professional employees, sworn officers of the police and public safety department as part of an investigation and other persons who manage student record information. An official has a legitimate educational interest if the official needs to review an educational record in order to fulfill their professional responsibility.
- b) Other educational institutions in which the student is enrolled or intends to enroll.
- c) Individuals and organizations who provide financial aid or scholarships to the student.
- d) Authorized representatives of the Comptroller General of the United States, the Secretary of the Department of Health and Human Services, the Department of Veterans Administration, the Department of Education, and administrative heads of state and federal educational agencies authorized bylaw.
- e) Accrediting organizations to carry out their accrediting functions.
- f) Appropriate authorities in compliance with judicial orders and pursuant to lawfully issued subpoenas. The College shall notify the student of any such orders or subpoenas unless the subpoena or order prohibits notification. The College shall comply with the subpoena ten (10) days after an attempt to notify the student of the request.
- g) Appropriate parties in an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals.
- h) The disclosure is to parents, as defined in §99.3 of a dependent student, as defined in section 152 of the Internal Revenue Code of 1986.
- i) An alleged victim of any crime of violence of the results of any disciplinary proceeding conducted by the College against the alleged perpetrator of the crime.

- j) Military recruiters for the purpose of federal military recruiting as stated in Public Law 104-206, Section 509(2).

LCC will maintain a record of each disclosure of identifiable information from the external individuals or agencies listed above. The record will be maintained in the Registrar's Office and will include the date, the name and address of the requesting party, the information requested, and the reason for requesting the information. The College reserves the right to correct any error made on an academic record or evaluation and will notify the student in writing of any record or evaluation correction. Staff of the College are subject to the requirements of the Family Educational Rights and Privacy Act of 1974, as amended.

Students have the right to request correction or amendment of information on educational records that are inaccurate, misleading or which violate privacy rights. Due process procedures for requesting correction or amendment to educational records are stated in the College Catalog under Student Appeals.

Students who feel their rights under the Family Educational Rights and Privacy Act have been infringed may file complaints with the Family Policy and Regulations Office, U.S. Department of Education, Washington, D.C. 20202.

Student Transcripts

The Registrar's Office maintains the official transcript of every student who attends LCC. The transcript is a copy of the student's academic record and contains the signature of the Registrar. The transcript includes items such as:

- courses attempted and completed
- courses and credits transferred
- credit hours
- Grade Point Average (GPA)
- Associate Degrees awarded by the College
- Certificates of Achievement awarded by the College
- Certificates of Completion awarded by the College

Students may request the official transcript through the National Student Clearinghouse, see the [Requesting Official Transcripts](#) webpage. Transcript requests require 3-5 working days to process, and a fee is charged for each transcript.

To view an unofficial transcript:

- Log into [Self Service Banner](#)
- Click on Student
- Click on Student Records
- Click on Unofficial Academic Transcript

Using a Course More Than Once for Credit toward a Degree or Certificate

To ensure that graduates from Lansing Community College are academically well rounded, students are not allowed to use the same course more than once for credit toward a degree or certificate unless specifically required or permitted to do so by the program pathway they are following.

Under no circumstances will a student be allowed to use the same course more than once for credit toward the General Associate Degree 0863.

Veteran's Affairs Education Benefit

For students who utilize VA Education Benefits, LCC will maintain records pertaining to student enrollments and VA certifications for a period of at least three (3) years, per State Approving Agency and Dept. of Veteran Affairs policy. Questions pertaining to LCC student VA Education Benefit records should be directed to the [Center for Veteran and Family Support \(CVFS\)](#).

Student Appeals and Complaints

LCC is committed to student success. Whenever contested issues cannot be resolved through an interactive process with faculty or administration, students are encouraged to submit complaints and concerns they may have to [LCC Student Appeals & Complaints](#).

- The College will promptly review and evaluate complaints and take appropriate actions.
- A complaint is any concern that LCC has violated a law or policy or has incorrectly applied an established process.
- Complaints or appeals may be academic or non-academic.

Before submitting a complaint or appeal, students are encouraged to do the following if applicable:

1. First attempt to resolve matters with the instructor or staff person involved.
2. If not resolved, contact the supervisor of the instructor or staff member involved to seek a resolution.
3. If the issue remains unresolved, submit a Student Complaint form.

Students that have questions or need assistance with this process should contact the LCC [Ombudsperson](#).

Complaints involving matters of a criminal nature should contact [LCC Police Department](#) at 517-483-1800, by [email](#), or in person at the locations listed below:

Downtown Campus: 411 N. Grand Ave., Lansing, MI 48933

West Campus: 5708 Cornerstone Drive, Lansing, MI 48917

For additional information regarding complaints and appeals go to the [LCC Student Appeals & Complaints](#) webpage.

Academic Amnesty

LCC has an Academic Amnesty process associated with the Board Policy 3.010 to authorize the elimination of a grade or grades of 0.0, 0.0F, or 0.0U in calculating a student's grade point average (GPA). Academic Amnesty recognizes that factors or reasons may result in a student not achieving satisfactory academic performance and that such performance may be a barrier to the student's eligibility to enter some occupational fields or achieve academic progress. This process applies to qualified students who receive one or more 0.0, 0.0F, or 0.0U grades, resulting in a low GPA possibly blocking their entrance into programs or fields of study. For additional information, please see [Academic Amnesty process](#).

Administrative Appeals

To provide students who experience an emergency situation, unexpected event, or administrative error an avenue to submit an administrative appeal to request an amendment to their academic record that is appropriate to the student's circumstantial need(s). For more information, view the [LCC Student Appeals and Complaints](#) webpage.

Canceling Course Sections

In the event a class is canceled as a result of College administrative action, students enrolled in that class will receive 100% tuition and fee refund.

To view the Cancelling Course Sections Board Policy 3.080, please visit the [Board of Trustees Board Policies](#) webpage.

Course Withdrawal Procedure

Students may elect to voluntarily withdraw from courses for a variety of reasons. To view the course withdrawal procedure, [click here](#).

Final Grade Appeals

A Final Grade Appeal should only be submitted when the student believes that the final course grade is incorrect.

Mistakes in calculations, computer errors, or assignment misunderstandings are resolved informally by contacting your instructor. To review the final grade appeal process, [click here](#).

General Student Complaints

To find assistance in resolving matters that are non-academic in nature, view the [LCC Student Appeals and Complaints](#) webpage.

Suggestion Box

Calling all Stars! We value your input. How can we continue to enhance your LCC experience? Whether you have suggestions, comments, or complaints, we want to hear from you. Please share your thoughts with us here.

Please note that this option is designed to gather feedback only and does not supersede or replace appeal, complaint, misconduct, or grievance procedures already in place.

[Click here to have your voice heard!](#)

2025-2026 Degree and Certificate Program Pathways

(Please refer to the [2025-2026 Program Pathways webpage](#) for possible updates)

LCC makes every effort to limit revisions to the pathways during their effective timeframe.

However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Program of Study Title	Code	Degree
Accounting	0162	AB
Accounting	0714	CA
Accounting CPA Exam Preparation	0255	AB
Advanced Management	0280	CA
African-American History	0137	AA
Agricultural Technology	1451	AAS
Airframe Maintenance Technology	0757	AAS
Airframe Maintenance Technology	1036	CA
Allied Health	1862	AAH
American Studies	0142	AA
Anthropology	1621	AA
Applied Artificial Intelligence	1852	CC
Applied Field Survey Methods	1836	CC
Art, Design, and Media	1861	GA
Art Foundation	1716	AA
Art History	0746	AA
Automotive Technologies	1791	AAS
Automotive Technologies	1790	CA

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Program of Study Title	Code	Degree
Automotive Technology: Advanced Electric Drive/Alternative Fuels	1792	CA
Automotive Technology: Brakes and Suspension Systems Specialist	1793	CC
Automotive Technology: Electrical and HVAC Diagnostic Specialist	1794	CC
Automotive Technology: Engine and Transmission Overhaul Specialist	1795	CC
Automotive Technology: Engine Performance and Drivability Specialist	1796	CC
Basic Aviation Technology	1037	CC
Basic Emergency Medical Technician	1853	CC
Biological Laboratory Techniques	1608	CC
Biology	0221	AS
Biotechnology	0212	AAS
Building and Construction Trades	1851	GA
Building Construction	1766	AAS
Business	1821	GA
Business Administration	0243	AB
Business, Enhanced Accounting tracks Business Administration tracks Business Transfer Studies tracks Human Resource Management tracks	1822	AB

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Program of Study Title	Code	Degree
Insurance and Risk Management tracks International Business tracks Management and Leadership tracks Marketing tracks		
Business Transfer Studies	1622	AA
Chemical Technology	0163	AAS
Chemistry	0117	AS
Child Development and Early Education	1637	AAA
Child Development and Early Education	0133	CA
Child Development and Early Education	1815	CC
Cisco Certified Network Associate Certification Preparation (CCNA)	1469	CC
Civil Technology	0178	AAS
Cloud Computing	1839	AAS
CNC Machine Technology	1798	CA
CNC Machine Technology	1797	CC
Communication	0136	AA
Communication, Journalism, and Language	1823	GA
Communication, Journalism, and Language, Enhanced Sign Language tracks	1834	AAA
Community Paramedicine	1819	CC

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Program of Study Title	Code	Degree
Computer Aided Design	1801	AAS
Computer Aided Design	1800	CA
Computer Aided Design	1799	CC
Computer Networking Technology	1453	AB
Computer Programmer/Analyst	0113	AB
Computer Programmer/Analyst	0969	CC
Computer Science	0169	AS
Computer Software Tester	1633	CA
Computer Support Specialist	0713	AB
Computer Support Technician	0743	AAS
Computer Technician	0168	CA
Computer Technology and Networking	1857	GA
Computer Technology Basics	0844	CC
Conservation and Sustainability	1840	AS
Conservation and Sustainability	1844	CA
Construction Management	1634	AAS
Control Panel Wiring	1471	CC
Correctional Officer	0840	CC

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Program of Study Title	Code	Degree
Creative Writing	1623	AA
Criminal Justice	0146	AA
Criminal Justice - Corrections	1209	AAS
Criminal Justice - Digital Evidence Specialist	1803	AAS
Criminal Justice - Digital Evidence Specialist	1802	CC
Criminal Justice - Juvenile Specialization	1475	AAS
Criminal Justice - Law Enforcement	1210	AAS
Customer Energy Specialist	1022	AAS
Customer Energy Specialist	0893	CA
Cybersecurity	1832	AAS
Cybersecurity Advanced	1845	CC
Cybersecurity Foundations	1833	CC
Dental Hygiene	0279	AAS
Digital Media: Cinematography	1450	CC
Digital Media and Design	1846	AAS
Digital Media Specialist	1458	AAS
Digital Media: Transfer	1452	AAS
Digital Media: Video/Cinema	1454	CA

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Program of Study Title	Code	Degree
Drone Pilot and Maintenance	1825	CC
E-Business	0839	AB
E-Business	0845	CA
E-Discovery Proficiency Certificate	1847	CC
Economics	0230	AA
Education	1624	AA
Education and Human Services	1843	GA
EKG Technician	1442	CC
Electrical and Manufacturing	1856	GA
Electrical Apprenticeship	1570	CA
Electrical Machine Controls	0966	CC
Electrical Technology	0134	AAS
Electrical Technology - Construction	0759	CA
Electrical Technology - Control Maintenance	0760	CA
Electrical Utility/Lineworker	1783	AAS
Electrical Utility/Lineworker	1468	CA
Electrical Wiring	0964	CC
Emergency Medical Services	0276	AAS

2025-2026 Degree and Certificate Program Pathways

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Program of Study Title	Code	Degree
EMS Instructor-Coordinator	1638	CC
Energy Industry Fundamentals	1777	CC
Engineering-Physics	1619	AS
Field Survey Methods and Analysis	1837	CA
Fire Science Academy	1854	CC
Fire Science Technology	0123	AAS
Fire Science/Basic EMT	1057	AAS
General Associate Degree	0863	GA
Geography	1858	AAS
Geology	1841	AS
Geospatial Science	0834	CA
Geospatial Science Technician	0224	AAS
Graphic Communication	1533	AAA
Graphic Design	1020	CA
Group Fitness Instructor	1704	CC
Heating and Air Conditioning	0836	AAS
Heating and Air Conditioning	0832	CA
Heavy Equipment Repair Technician	1055	AAS

2025-2026 Degree and Certificate Program Pathways

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Program of Study Title	Code	Degree
Heavy Equipment Repair Technician	1041	CA
History	0197	AA
History, Humanities, and English	1860	AA
Human Resource Management	0712	AB
Human Services	0915	AAS
Human Services	1201	CA
Human Services	1859	CC
HVAC/R-Energy Management Engineering Technology	1257	AAS
Industrial Maintenance Technician	1484	CA
Industrial Manufacturing Engineering Technology	0110	AAS
Information Technology Foundations	0766	CC
Inside Wireman Apprenticeship	1445	AAS
Insurance and Risk Management	1804	AB
Insurance and Risk Management	1838	CC
International Business	0240	AB
Japanese Studies	1787	CC
Journalism	1628	AA
Juvenile Justice	0916	CA

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Program of Study Title	Code	Degree
Kinesiology/Exercise Science	1639	AAS
Legal Studies	0101	AB
Legal Studies Post-Bachelor	0744	CA
Literature	0124	AA
Local Corrections Officer	1810	CC
Long-Term Care Nurse Aide	1025	CC
Machine Tool Technology	1470	CA
Magnetic Resonance Imaging Technology	1632	AAS
Magnetic Resonance Imaging Technology	1602	CA
Management	0249	CA
Management and Leadership	0245	AB
Manufacturing Engineering Technology	1359	AAS
Marketing	0204	AB
Marketing	0225	CA
Massage Therapy	1826	CC
Mathematics	1620	AS
Mechanical Systems	0173	AAS
Mechanical Systems	0147	CA

2025-2026 Degree and Certificate Program Pathways

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Program of Study Title	Code	Degree
Mechatronics - Multi-Skilled Maintenance Technology	1780	AAS
Medical Assistant	1811	CA
Medical Insurance Billing and Coding	1488	CC
Microsoft Office Specialist	0841	CC
Mid-Michigan Police Academy	1855	CC
Mobile Application Developer	1712	CA
Music Transfer	1827	AM
Music	1828	GA
Music Education/Pre-Music Therapy	1829	AM
Music, Enhanced Music Industry tracks	1835	AM
Music Industry	1830	AM
Music Technology	1358	CC
Musicianship Studies	1352	CC
Neurodiagnostic Technology	1812	AAS
Nursing - RN Option	0222	AAS
Paramedic	0272	CA
Patient Care Technician	1784	CC

2025-2026 Degree and Certificate Program Pathways

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Program of Study Title	Code	Degree
Personal Trainer	1705	CA
Pharmacy Technician	1024	CC
Philosophy	0159	AA
Phlebotomy Technician	1010	CC
Political Science	0750	AA
Powerplant Maintenance Technology	0745	AAS
Powerplant Maintenance Technology	1035	CA
Pre-Medical Studies	0754	AS
Psychology	0215	AA
Public Service Careers	1848	GA
Radiologic Technology	0196	AAS
Religious Studies	0751	AA
Robotics and Automated Technology	1605	CA
Robotics and Automated Technology	1789	CC
Sales Specialist	0242	CA
Science and Mathematics	1831	GA
Sign Language Interpreter	0282	AAA
Sign Language Interpreter	0187	CA

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Program of Study Title	Code	Degree
Social Sciences	1842	GA
Sociology	0753	AA
Spanish Studies	1788	CC
Sterile Processing Technician	1017	CC
Studio Art	1781	AFA
Surgical Technology	1021	AAS
Teacher Paraprofessional	1039	AAS
Teacher Paraprofessional	0829	CC
Theatre	1849	AFA
Transfer Studies	1779	AA
Transfer Studies	1782	AS
Transfer Studies	1482	CA
Transportation Technologies	1850	GA
Ultrasound: Diagnostic Medical Sonography	0790	AAS
Vascular Technology	1604	CC
Veterinary Nursing	0287	AAS
Web Site Developer	0843	CC
Welding Technology	0186	AAS

2025-2026 Degree and Certificate Program Pathways

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*However, the College reserves the right to update certificate and degree title changes,
and make course changes as needed, without prior notice.*

Program of Study Title	Code	Degree
Welding Technology	0156	CA
Welding Technology	1356	CC
World Languages	0132	AA



Accounting A.B.

Career Community: Business

Curriculum Code: 0162

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of Accounting on completion of the Associate of Business degree. Graduates of this degree/major are qualified to work as a paraprofessional in most areas of accounting, such as financial reporting, cost accounting, governmental accounting, tax preparation, and auditing. Typically, paraprofessionals work under the supervision of a professional accountant, but may be doing essentially the same type of work. Job titles include bookkeeper, accounting clerk, and tax preparer, among others. Not all courses in this program transfer to all institutions. Students who also wish to transfer to a four-year institution should select the coursework indicated for that institution, and may also complete the coursework for a Business, Enhanced AB degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for the Business, Enhanced AB, Accounting Pathway include Davenport University, Eastern Michigan University, Ferris State University (Business Administration – Professional Track), Northwood University, Oakland University, and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of ACCG 210 and ACCG 211 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 160	Payroll Systems and Taxes	2 / 2

Course Code	Course Title	Credit / Billing Hours
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 210	Principles of Financial Accg	4 / 4
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 245 or ACCG 271	Accounting Internship	2 / 2
	Principles of Finance	3 / 3
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace	3 / 3
	Fundamentals Public Speaking	3 / 3
ECON 201	Principles of Economics-Micro	4 / 4
ENGL 121 or ENGL 131	Composition I	4 / 4
	Honors Composition I	4 / 4
LEGL 215	Business Law-Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra	4 / 4
	Introduction to Statistics	4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer choose ACCG 271.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University choose COMM 110 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Northwood University and Oakland University choose MATH 120.
- Ferris State University choose COMM 130 and STAT 170.
- Sienna Heights University choose STAT 170.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

- Select one course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education, Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or BIOL 125 or CHEM 135 or GEOG 206 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 125.

General Education – Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

65 credits / 65 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ACCG 210 – Milestone course
BUSN 118
ENGL 121 or ENGL 131
MATH 120 or STAT 170

Semester II
ACCG 160
ACCG 161
ACCG 211 – Milestone course
ACCG 215
COMM 110 or COMM 130

Semester III
ACCG 220
ACCG 230
ECON 201
LEGL 215
MGMT 225

Semester IV
ACCG 221
ACCG 240
ACCG 245 or ACCG 271
MKTG 200
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Accounting C.A.

Career Community: Business

Curriculum Code: 0714

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Certificate holders qualify for clerical-level accounting positions that frequently include the need for general office skills in addition to accounting. Job titles include billing clerk, bookkeeper, payroll clerk, accounts payable clerk, and accounts receivable clerk. In smaller companies, a certificate holder may do all accounting tasks other than those handled by the company's CPA firm or other outside accountants. Accounting majors may complete this certificate as part of the Accounting Associate of Business degree.

Milestone

Completion of ACCG 210 and ACCG 211 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 210	Principles of Financial Accg	4 / 4
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
CITA 126	Microsoft Excel	3 / 3

Major Required Courses, Limited Choice - Communication – Select one

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Note: Students considering completion of the Accounting Associate of Business degree with future transfer options should select the course as indicated below:

- Davenport University or Oakland University choose COMM 110
- Eastern Michigan University or Ferris State University choose COMM 130
- Northwood University or Sienna Heights University choose either course

Major Required Courses, Limited Choice - Composition – Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 127	Business Writing	3 / 3
ENGL 131	Honors Composition I	4 / 4

Note: Students considering completion of the Accounting Associate of Business degree should choose ENGL 121 or ENGL 131.

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
ACCG 220	Intermediate Accounting I	4 / 4
CITA 226	Microsoft Excel-Advanced	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
STAT 170	Introduction to Statistics	4 / 4

Note: Students considering completion of the Accounting Associate of Business degree should choose ACCG 220.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 32 billing hours

Recommended Course Sequence

Semester I (Fall)
ACCG 210 – Milestone course
CITA 126
Limited Choice - Composition

Semester II (Spring)
ACCG 160
ACCG 161
ACCG 211 – Milestone course
ACCG 215

Semester III (Summer)
ACCG 240
Limited Choice - Communication
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Accounting - CPA Exam Preparation A.B.

Career Community: Business

Curriculum Code: 0255

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree focuses on helping students with a Bachelor Degree, outside the field of accounting, learn the material to pass the Uniform Certified Public Accountant (CPA) Examination, and provides them with the classes needed to start a career as a professional accountant. The program prepares students for success in all realms of accounting, including careers as an auditor, tax professional, cost accountant, governmental accountant, financial analyst, and many more.

In addition to the 150 credit hours educational requirement, candidates must meet the accounting credit hours requirement, business credit hours requirement, and professional experience requirement. Though this program meets all of the accounting credit hours requirement to become certified and start a career in accounting, this program does not meet all of the business credit hours requirement or professional experience requirement. Students should research all of the requirements to become certified. The current "Guide to Becoming a Michigan CPA," along with other information regarding careers as a C.P.A., can be found on the [Michigan Association of CPA's \(MICPA\) Student Resources page](#).

Before starting this program, students should meet with an Accounting Faculty Advisor.

Milestone

In addition to the required General Education courses in Math and English, completion of ACCG 210 and ACCG 211 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

Contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 210	Principles of Financial Accg	4 / 4
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4

Course Code	Course Title	Credit / Billing Hours
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4

General Education – Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course)/Communication or Applied Communication – *Select one*
COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*
ECON 260, Comparative Economic Systems, 3 credits / 3 billing hours
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
POLS 260, Comparative Political Systems, 3 credits / 3 billing hours
- Mathematics or Applied Mathematics – *Select one*
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours
MATH 120, College Algebra, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Sciences and Technology Lab – *Select one*
ASTR 201, Introductory Astronomy, 4 credits / 5 billing hours
BIOL 125, Intro Biology for Non-Majors, 4 credits / 6 billing hours
PHYS 120, The Art of Physics, 4 credits / 5 billing hours

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

63 credits / 64 billing hours

Recommended Course Sequence

Semester I
Gen Ed - English Composition or Applied English
Gen Ed – English Composition (second course)/ Communications or Applied Communications
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Gen Ed - Mathematics or Applied Mathematics
ACCG 210 – Milestone course
Semester II
Gen Ed - Natural Sciences Lab or Applied Sciences and Technology Lab
ACCG 211 – Milestone course
ACCG 215
ACCG 240
Semester III
ACCG 220
ACCG 230
ACCG 241
ACCG 280
Semester IV
ACCG 221
ACCG 260
ACCG 271
ACCG 290

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Advanced Management C.A.

Career Community: Business

Curriculum Code: 0280

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This is an advanced certificate designed to be taken after completing an associate or bachelor degree in order to enhance an individual's employment or advancement opportunities. Courses completed as part of the associate's or bachelor's degree will be applied to this certificate. Not all courses transfer to all colleges. Students planning to transfer should work with an academic advisor or program advisor before enrolling in any course.

Milestone

Completion of MGMT 225 or MGMT 300, with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
MGMT 224	Human Resource Management	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3

Major Required Courses, Limited Choice – Communication – *Select one*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Major Required Courses, Limited Choice – Management/ Leadership - *Select one*

Course Code	Course Title	Credit / Billing Hours
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 300	Leading for Possibility	3 / 3

Major Required Courses, Limited Choice – Quantitative - *Select one*

Course Code	Course Title	Credit / Billing Hours
ACCG 210	Principles of Financial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3

Major Required Courses, Limited Choice – Business - *Select one*

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 201	International Business	3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 33 billing hours

Recommended Course Sequence

Semester I
MGMT 224
MGMT 225 – Milestone course (if choosing MGMT 225)
MGMT 304
MGMT 332
Limited Choice – Communication
Limited Choice – Business

Semester II
MGMT 329
MGMT 335
MGMT 337
MGMT 345
MGMT 300 – Milestone course (if choosing MGMT 300)
Limited Choice – Quantitative

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



African-American History A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0137

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of HIST 150 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
ENGL 121 or	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
HIST 150	African-American History	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Major Required Courses, Limited Choice - Natural Sciences – *Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Biology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4

Course Code	Course Title	Credit / Billing Hours
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice - Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer in Secondary Education – Social Studies (History focus) to:

- Central Michigan University and Western Michigan University choose EDUC 220 and GEOG 200.
- Eastern Michigan University, Ferris State University, Grand Valley State University, and Michigan State University choose EDUC 204 and GEOG 200.
- University of Michigan Flint choose GEOG 200 and PSYC 200.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses met this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. Select courses not already taken to meet the General Education Social Science requirement. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
GEOG 200	World Regional Geography	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HUMS 215	American Cultural Experience	4 / 4
POLS 120	American Political System	4 / 4
RELG 150	Intro to World Religions	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
HIST 211
MATH 119 or MATH 120 or STAT 170
Limited Choice - Natural Science

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ENGL 260
HIST 150 – Milestone course
Limited Choice - Natural Science

Semester III
HIST 212
HIST 214
Limited Choice – Social Sciences
Electives

Semester IV
Limited Choice – Social Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Agricultural Technology A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 1451

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Agricultural Technology degree is designed to train individuals to work in agri-business or in various other aspects of the agricultural industry, depending upon the specific Certificate program completed at Michigan State University (MSU). MSU certificates include Agricultural Industries, Dairy Management, Electrical Technology, Fruit, Vegetable and Organic Horticulture Management, Horse Management, Landscape and Nursery Management, Livestock Industries, Sports and Commercial Turf Management, and Turfgrass Management Golf Course. This program is offered through a joint agreement between Lansing Community College (LCC) and the Michigan State University Institute of Agricultural Technology (IAT), with Major courses taught by MSU and General Education courses taught by LCC.

Milestone

Completion of the required General Education Math, English and Science courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students may enter this curriculum in one of two ways. A student may begin at LCC, taking general education classes, and apply to the IAT for admittance to one of the specific concentrations listed above. Alternatively, students may be admitted first to a specific Certificate program in the IAT and then decide to enter the joint program to receive the AAS degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092; the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904; or the MSU Institute of Agricultural Technology, Room 120 Agriculture Hall on the MSU campus, telephone number 517-355-0190.

Major Required Course, English Composition or Applied English – Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Course, English Composition (second course) or Communication or Applied Communication – Select one

Course Code	Course Title	Credit / Billing Hours
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Major Required Course, Humanities and Fine Arts or Social Sciences or Applied Social Sciences – Select one

Course Code	Course Title	Credit / Billing Hours
ECON 201	Principles of Economics-Micro	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

Major Required Course, Mathematics or Applied Mathematics – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math – Applications for Living	4 / 4
MATH 120*	College Algebra	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

*MATH 120 highly recommended

Major Required Course, Natural Sciences Lab or Applied Sciences or Technology

Lab – Select one; CHEM 151 & CHEM 161 is one option.

Course Code	Course Title	Credit / Billing Hours
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meets this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meets this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meets this requirement.
- Natural Sciences Lab or Applied Sciences or Technology Lab*
Major Required Courses meets this requirement.

**Students who have completed MSU ANS 110 and 110L, ANS 242, CSS 101 and CSS 101L, or HRT 203, and HRT 213 and 213L with grades of 2.0 or higher will satisfy the Applied Science requirement. Students should contact their advisor for information.*

MSU Agricultural Technology Courses

Minimum 47 Credits - Required Agricultural Technology certificate from Michigan State University

Institutional Requirements

Choose an appropriate Lansing Community College course or courses so that the total number of credits taken at LCC is 15 or more per college policy, and so that at least 60 credits are earned toward the degree. Part of this requirement may automatically be fulfilled if a student completes 15 or more credits of the General Education – Applied Degree courses.

Minimum Total Credit Hours

66 credits / 21 billing hours

Recommended Course Sequence

Semester I
Agricultural Technology courses from MSU
Semester II
Agricultural Technology courses from MSU
Semester III
Agricultural Technology courses from MSU
Semester IV
Gen Ed - English Composition or Applied English
Gen Ed - English Composition (second course) or Communication or Applied Communication
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Gen Ed - Mathematics or Applied Mathematics
Gen Ed - Natural Sciences Lab or Applied Sciences or Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Airframe Maintenance Technology A.A.S.

Career Community: Transportation

Curriculum Code: 0757

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Airframe maintenance technicians maintain aircraft in accordance with Federal Aviation Regulations. Airframe technicians perform a wide variety of repairs and alterations to sheet metal and composite aircraft structures. In addition, they inspect and repair or replace complex aircraft components associated with hydraulic/pneumatic, communication/navigation, fuel and flight control systems. Aviation maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

Completion of AVGM 111, AVGM 112, AVGM 113, and AVGM 114, with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional information

Students are required to successfully complete the entire 6 semester program with a 2.0 or higher in each class that includes Basic Aviation Technology and Airframe Maintenance Technology in order to be eligible to test for Federal Aviation Administration (FAA) licensure as an Airframe and Powerplant (A&P) Mechanic. All program courses are offered one time per year and this is a full-time program. Program courses are offered in a required sequence. General Education courses may be taken any time throughout the program.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

Major Required Courses - A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
AUTM 102 or DCTM 102 or TECH 102	Automotive/Collision Safety Industrial/Construction Safety General Industry Safety	1 / 1 2 / 3 2 / 3
AVAF 125	Aircraft Systems I	2 / 2.75
AVAF 126	Aircraft Systems II	6 / 8.25
AVAF 127	Aircraft Systems III	3 / 4
AVAF 134	Aircraft Instruments	2 / 2.75
AVAF 140	Aircraft Welding	2 / 3
AVAF 208	Aircraft Structures I	4 / 5.5
AVAF 209	Aircraft Structures II	4 / 5.75
AVAF 210	Aircraft Structures III	4 / 6
AVAF 211	Aircraft Electrical I	4 / 5.75
AVAF 212	Aircraft Electrical II	4 / 5.75
AVAF 246	Airframe Certification	1 / 1.5
AVEL 202	Flight Line Testing	3 / 4
AVGM 111	Aviation General I	4 / 5
AVGM 112	Aviation General II	6 / 8
AVGM 113	Aviation General III	4 / 5
AVGM 114	Materials and Processes	5 / 7
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking	3 / 3 3 / 3 3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

Program of Study Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education - Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

Program of Study Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended or select one from [LCC General Education - Applied Degrees, Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

General Education - Applied Degree

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

76 credits / 99 billing hours

Required Course Sequence

Semester I (Fall)
AVGM 111 – Milestone course
AVGM 112 – Milestone course
AVGM 113 – Milestone course
AVGM 114 – Milestone course

Semester II (Spring)
AVAF 125
AVAF 126
AVAF 140
AVAF 208
AVAF 211

Semester III (Summer)
ACAD 100
AUTM 102 or DCTM 102 or TECH 102
AVAF 127
AVAF 134
AVAF 212

Semester IV (Fall)
AVAF 209
AVAF 210
AVAF 246
AVEL 202

Semester V (Spring)
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
COMM 110 or COMM 120 or COMM 130
MATH 115 or MATH 119 or MATH 120 or STAT 170
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Airframe Maintenance Technology C.A.

Career Community: Transportation

Curriculum Code: 1036

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate of achievement enables a non-licensed individual to expand their knowledge of airframe maintenance practices used to maintain aircraft in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicle airframes. Graduates will have demonstrated technical abilities in flight control rigging and adjustment, airframe structural repair, hydraulic and pneumatic systems inspection and repair, flight control operation, fuel system maintenance and repair, airframe electrical system diagnosis and repair, and airframe inspections. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

Milestone

Completion of AVAF 212 and AVAF 126 with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAF 125	Aircraft Systems I	2 / 2.75
AVAF 126	Aircraft Systems II	6 / 8.25
AVAF 127	Aircraft Systems III	3 / 4
AVAF 134	Aircraft Instruments	2 / 2.75
AVAF 140	Aircraft Welding	2 / 3
AVAF 208	Aircraft Structures I	4 / 5.5
AVAF 209	Aircraft Structures II	4 / 5.75

Course Code	Course Title	Credit / Billing Hours
AVAF 210	Aircraft Structures III	4 / 6
AVAF 211	Aircraft Electrical I	4 / 5.75
AVAF 212	Aircraft Electrical II	4 / 5.75
AVAF 246	Airframe Certification	1 / 1.5
AVEL 202	Flight Line Testing	3 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

39 credits / 55 billing hours

Required Course Sequence

Semester I (Spring)
AVAF 125
AVAF 126 – Milestone course
AVAF 140
AVAF 208
AVAF 211

Semester II (Summer)
AVAF 127
AVAF 134
AVAF 212 – Milestone course

Semester III (Fall)
AVAF 209
AVAF 210
AVAF 246
AVEL 202

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Allied Health A.A.H.

Career Community: Health Careers

Curriculum Code: 1862

Effective: Fall 2025 – Summer 2030

Description

Allied Health is a broad field of study that encompasses a variety of professions involved in the diagnosis, evaluation, and treatment of acute and chronic diseases, disease prevention and wellness, and rehab and health systems management that support health care systems in an array of settings. Therefore, this degree is designed to be customized to a student's goals for a health profession. A minimum of 60 credits is required and includes LCC General Education requirements.

The Career Community block of courses includes courses that are common to all degree options included in the Allied Health area (Dental Hygiene, Emergency Medical Services, Kinesiology/Exercise Science, Magnetic Resonance Imaging, Neurodiagnostic Technology, Nursing, Radiologic Technology, Surgical Technology, Ultrasound: Diagnostic Medical Sonography). Students may choose to move into one of the specific degree pathways or continue to complete the Allied Health degree.

This pathway serves as the pathway for students working on admission to a Health Careers selective admission program, and it includes courses in a number of certificate pathways for new students or students who may already have a certain certification or license and are seeking an associate degree for further education or employment opportunities. This degree also allows students who are seeking to transfer to a four-year institution in a health-related major, not specifically offered through an LCC associate degree program, to meet the majority of prerequisite and admission requirements for the transfer program.

The Medical Education and Training Campus (METC) option provides an opportunity for military transfer credit. Additional course choices enhance a student's degree track and may include those that will satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and transfer to a baccalaureate degree program in a health-related field.

Courses appearing in more than one section on this pathway can be counted only once toward the credit total. Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

Completion of the required General Education courses in Math and English with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

It is crucial that students meet with a Health Careers academic advisor or program director prior to selecting courses based on academic goals. Students must earn a minimum grade of 2.0 or higher in all courses to earn this degree. Higher grades will be required in some courses and if you are applying to a selective admission program.

Students wishing to apply for admission to one of the selective admission programs listed below should visit the [Advising Guides - Health and Human Services Division](#) webpage to review program-specific admission requirements for each selective admission program. For additional information or questions, contact the Selective Admissions Office via [email](#) or 517-483-1410.

Selective Admission Pre-Programs
P001 - Pre-Dental Hygiene Advising Guide
P006 - Pre-Nursing RN Option 2 Year Track Advising Guide
P006 - Pre-Nursing RN Option 2nd Degree Track Advising Guide
P008 - Pre-Radiologic Technology Advising Guide
P009 - Pre-Surgical Technology Advising Guide
P002 - Pre-Ultrasound: Diagnostic Medical Sonography Advising Guide
Pre-Magnetic Resonance Imaging Technology Advising Guide
Pre-Neurodiagnostic Medical Technology Advising Guide

Visit [2025-2026 Degree and Certificate Program Pathways](#) to review the pathway for each certificate program:

Certificate Pathways
Group Fitness Instructor C.C. (#1704)
Massage Therapy C.C. (#1826)
Medical Assistant C.A. (#1811)
Medical Insurance Billing and Coding (#1488)
Vascular Technology C.C. (#1604)

Follow advising notes below each section of this guide to choose courses required for specific transfer programs.

Credit for Approved State or National Licensure or Certification and Previously Acquired Knowledge and Learning Experience

Students who have applied to LCC and hold certain current certifications and/or licenses listed at the following link are encouraged to apply for [Licensure or Certification Credit](#) toward this degree. Students who have personal and professional experience gained through actual job-related activities and special training experiences are encouraged to apply for Credit for Prior Learning Experience toward this degree. These learning experiences must directly relate to a specific course or courses required within a student's LCC program. Credits granted through either of these two options that are relevant to this degree may be used toward degree completion. Contact the Experiential Learning Coordinator, Jobs Training Center, West Campus Building, 517-483-1857, or email priorlearning@star.lcc.edu for more information.

Contact Information

Prior to beginning this program, students should meet with a Health Careers advisor in the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904. Students should also visit the [Health and Human Services Division](#) website for more information.

Health Careers Community Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.) Higher grades may be required for admission to a selective admission program. Review the program advising guide for program-specific minimum grade requirements.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 145 or BIOL 201 and BIOL 202	Intro Anatomy and Physiology Human Anatomy and Human Physiology	4 / 6 8 / 11
COMM 110 or COMM 120 or COMM 130 or COMM 240 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Interpersonal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or MATH 126 or MATH 151 or STAT 170 or	Math – Applications for Living College Algebra Precalculus Calculus I Introduction to Statistics	4 / 4 4 / 4 5 / 5 4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
STAT 215	Intro to Probability and Stats	4 / 4
PSYC 200 or SOCL 120	Introduction to Psychology Introduction to Sociology	4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future major areas:

- Dental Hygiene students choose COMM 110 or COMM 120 or COMM130 or COMM 240, and MATH 119 or MATH 120, and SOCL 120.
- Emergency Medical Services students choose MATH 119 or MATH120 or MATH 126.
- Kinesiology/Exercise Science students choose MATH 120 or MATH 126 or MATH 151 or STAT 170. Students planning to transfer choose BIOL 201 and 202, and MATH 120 or MATH 126 or MATH 151. Non-transfer students may choose BIOL 145 and STAT 170.
- Magnetic Resonance Imaging students choose BIOL 201 and BIOL 202, and COMM 110 or COMM 120 or COMM 130 or COMM240, and MATH 120 or STAT 170 or STAT 215.
- Neurodiagnostic Technology students choose COMM 110 or COMM 120 or COMM 130 or COMM 240, and MATH 119 or MATH120 or STAT 170 or STAT215, and SOCL 120.
- Nursing (RN option) students choose BIOL 201 and BIOL202, and COMM 110 or COMM 120 or COMM130 or COMM240, and MATH 119 or STAT 170 or STAT215.
- Radiologic Technology students choose COMM 110 or COMM 120 or COMM 130 or COMM 240, and MATH 119 or MATH 120 or STAT 170 or STAT 215.
- Surgical Technology students choose BIOL 201 and BIOL 202, and COMM 110 or COMM 120 or COMM 130 or COMM 240, and MATH 119 or STAT 170 or STAT 215.
- Ultrasound: Diagnostic Medical Sonography students choose COMM 110 or COMM 120 or COMM 130 or COMM 240, and MATH 120 or STAT 170 or STAT 215.
- Students considering transfer for all majors choose BIOL 201 and BIOL 202, and COMM 130.

For future transfer to:

- Central Michigan University
BS Dietetics choose BIOL 201 and BIOL 202, and COMM 130, and MATH 120.
BS Environmental Health and Safety choose BIOL 145, and COMM 130, and MATH 120.

- Eastern Michigan University
BS Clinical Science, Histotechnology, or Medical Laboratory Science choose BIOL 201 and BIOL 202, and COMM 120 or COMM 130, and STAT 170.
- Ferris State University (Allied Health) choose BIOL 145, and COMM 130 or COMM 240, and MATH 119 or MATH 120.
- Grand Valley State University (Allied Health Science – General Emphasis or Applied Food and Nutrition) choose BIOL 201 and BIOL 202, and COMM 120 or COMM 130, and MATH 120.
- Michigan State University (Dietetics) choose BIOL 201 and BIOL 202, and COMM 130, and MATH 120.
- University of Michigan-Flint (Health Sciences) choose BIOL 201 and BIOL 202, and ENGL 122, and MATH 120.
- Wayne State University
BS Medical Laboratory Science choose BIOL 145, and COMM 130, and MATH 120.
BS Mortuary Science choose BIOL 145, and COMM 120 or COMM 130, and MATH 120.
- Western Michigan University (Clinical Practice in Health Concentrations) choose BIOL 145, and ENGL 122, and MATH 119.

Major Required Courses, Limited Choice – *Select 30 credits. Work with an Academic Advisor to select the most appropriate courses or field-specific major that meets your educational and career goals. One or more certificate pathways may be completed while completing this degree. There is a 2-credit maximum for PFFT/PFWT courses, and a 6-credit maximum for MGMT courses. In addition, there is an 18-credit maximum for a combination of Science and Management courses (BIOL/CHEM/PHYS/MGMT).*

Course Code	Course Title	Credit / Billing Hours	Certificate Pathway
BIOL 121	Biol Foundation for Physiology	4 / 6	
BIOL 127	Cell Biology	4 / 6	
BIOL 203	Microbiology	3 / 3	
BIOL 204	Microbiology Laboratory	1 / 3	
CHEM 120	Gen Organic & Biological Chem	4 / 4	
CHEM 125	Basic Chemistry	4 / 4	
CHEM 151	General Chemistry Lecture I	4 / 4	
CHEM 152	General Chemistry Lecture II	3 / 3	
CHEM 161	General Chemistry Lab I	1 / 3	
CHEM 162	General Chemistry Lab II	1 / 3	
CHSE 100	Intro to Health Professions	3 / 3	
CHSE 108	Long-Term Care Nurse Aide	4 / 6.5	1025 – Long-Term Care Nurse Aide C.C. 1784 – Patient Care Technician C.C.

Course Code	Course Title	Credit / Billing Hours	Certificate Pathway
CHSE 109	LTC to AC Nurse Assistant/PCT	3 / 4.75	
CHSE 114	Pathophysiology-Allied Health	3 / 3	
CHSE 117	Health Law and Ethics	2 / 2	
CHSE 120	Medical Terminology	4 / 4	1017 – Sterile Processing Tech. C.C. 1442 – EKG Technician C.C. 1488 – Medical Insurance Billing and Coding C.C.
CHSE 123	Medical Ins Billing/Coding I	4 / 4	1488 – Medical Insurance Billing and Coding C.C.
CHSE 124	Medical Ins Billing/Coding II	4 / 4	1488 – Medical Insurance Billing and Coding C.C.
CHSE 125	Comp-Med Ins Billing/Coding	2 / 2	1488 – Medical Insurance Billing and Coding C.C.
CHSE 127	Medical Ins Billing/Coding III	3 / 3	1488 – Medical Insurance Billing and Coding C.C.
CHSE 131	Electronic Hlth Records Intro	2 / 2	1488 – Medical Insurance Billing and Coding C.C.
CHSE 133	Med Bill/Code Cert Exam Prep	2 / 2	1488 – Medical Insurance Billing and Coding C.C.
CHSE 136	EKG Technician	3.5 / 4	1442 – EKG Technician C.C.
CHSE 143	Phlebotomy Technician	2 / 3	1010 – Phlebotomy Technician C.C.
CHSE 144	Phlebotomy Externship	2 / 2	1010 – Phlebotomy Technician C.C.
CHSE 151	Patient Care Technician	6 / 9.25	1784 – Patient Care Technician C.C.
CHSE 235	Pharmacy Technician	4 / 4	1024 – Pharmacy Technician C.C.
CHSE 236	Pharmacy Technician Externship	2 / 2	1024 – Pharmacy Technician C.C.
EMTA 100	Emergency Medical Responder	4 / 6	
EMTA 121	EMT Medical Trauma	6 / 6	1853 - Basic Emergency Medical Technician C.C.
EMTA 122	EMT Skills	3.5 / 6.75	1853 - Basic Emergency Medical Technician C.C.
EMTA 125	EMT Clinical	2.25 / 2.25	1853 - Basic Emergency Medical Technician C.C.
EMTA 222	EMS Instructor-Coordinator	9 / 9	1638 – EMS Instructor-Coordinator CC
EMTA 224	EMS Instr-Coord Student Teach	2 / 2	1638 – EMS Instructor-Coordinator CC
IDMS 250	Vascular Technology I	6 / 6	1604 – Vascular Technology C.C.
IDMS 251	Vascular Technology II	6 / 6	1604 – Vascular Technology C.C.
IDMS 255	Vascular Scan Lab I	2.5 / 4	1604 – Vascular Technology C.C.

Course Code	Course Title	Credit / Billing Hours	Certificate Pathway
IDMS 256	Vascular Scan Lab II	2.5 / 4	1604 – Vascular Technology C.C.
MEDA 110A	Intro MA Med Terms & Patho I	2.5 / 2.5	1811 – Medical Assistant C.A.
MEDA 110B	Intro MA Med Terms & Patho II	2.5 / 2.5	1811 – Medical Assistant C.A.
MEDA 126A	MA Administrative Skills I	2.5 / 3	1811 - Medical Assistant C.A.
MEDA 126B	MA Administrative Skills II	2.5 / 3	1811 - Medical Assistant C.A.
MEDA 135	MA Pharmacology & Med Math	2 / 2	1811 - Medical Assistant C.A.
MEDA 145	Legal & Ethical Concepts	2 / 2	1811 - Medical Assistant C.A.
MEDA 156A	MA Clinical Procedures IA	3.5 / 5.5	1811 - Medical Assistant C.A.
MEDA 156B	MA Clinical Procedures IB	3.5 / 5.5	1811 - Medical Assistant C.A.
MEDA 166	MA Clinical Procedures II	5 / 7	1811 - Medical Assistant C.A.
MEDA 175	MA Certification Review	3 / 3	1811 - Medical Assistant C.A.
MEDA 177A	MA Practicum Immersion I	1 / 1	1811 - Medical Assistant C.A.
MEDA 177B	MA Practicum Immersion II	2 / 2	1811 - Medical Assistant C.A.
MGMT 223	Supervisory Skills	3 / 3	
MGMT 225	Principles of Mgmt/Leadership	3 / 3	
MGMT 227	Training/Development for Busn	3 / 3	
MGMT 228	Organization Behavior	3 / 3	
MGMT 234	Diversity in the Workplace	3 / 3	
MSGE 131	Massage I	2.13 / 4	1826 – Massage Therapy C.C.
MSGE 132A	Anatomy/Physiology Massage I	2.13 / 4	1826 – Massage Therapy C.C.
MSGE 132B	Anatomy/Physiology Massage II	1.06 / 2	1826 – Massage Therapy C.C.
MSGE 137	Medical Terminology in Massage	1.06 / 2	1826 – Massage Therapy C.C.
MSGE 139A	Pathology for Massage I	.53 / 1	1826 – Massage Therapy C.C.
MSGE 139B	Pathology for Massage II	.53 / 1	1826 – Massage Therapy C.C.
MSGE 141	Massage Clinic I	1.33 / 2.5	1826 – Massage Therapy C.C.
MSGE 151B	Event Massage	.80 / 1.5	1826 – Massage Therapy C.C.
MSGE 151D	Special Populations	.80 / 1.5	1826 – Massage Therapy C.C.
MSGE 231	Massage II	2.13 / 4	1826 – Massage Therapy C.C.
MSGE 232	Massage III	2.13 / 4	1826 – Massage Therapy C.C.
MSGE 241	Massage Clinic II	1.33 / 2.5	1826 – Massage Therapy C.C.
MSGE 242	Massage Clinic III	1.60 / 3	1826 – Massage Therapy C.C.
MSGE 254	Busn App for Massage	1.10 / 2	1826– Massage Therapy C.C.
MSGE 256	Clinical Assess for Massage	1.06 / 2	1826 – Massage Therapy C.C.
MSGE 258	Career Longevity	1.06 / 2	1826– Massage Therapy C.C.
NCHE 102	AHA BLS Provider CPR	0 / 0*	
NURS 200	Nursing Pharmacology	3 / 3.5	

Course Code	Course Title	Credit / Billing Hours	Certificate Pathway
NURS 201	Patient-Centered Care	3 / 3	
PFFT 100	Total Fitness A-Fitness	2 / 3	
PFFT 101	Total Fitness B-Nutrition	2 / 3	
PFFT 102	Total Fitness C-Weight Control	2 / 3	
PFFT 109	Introduction to Fitness	1 / 2	1704 – Group Fitness Instructor C.C.
PFHW 123	Human Nutrition	3 / 3	1704 – Group Fitness Instructor C.C.
PFHW 163	Healthy Lifestyles	2 / 3	
PFHW 181	Stress Management	1 / 1	1704 – Group Fitness Instructor C.C.
PFKN 106	Group Fitness Instructor Prep	3 / 4	1704 – Group Fitness Instructor C.C.
PFKN 170	Foundations of Kinesiology	3 / 3	1704 – Group Fitness Instructor C.C.
PFKN 200	Exercise Physiology	3 / 3	1705 – Personal Trainer C.A.
PFKN 201	Exercise Physiology Lab	1 / 2	1705 – Personal Trainer C.A.
PFKN 205	Sport & Exercise Psychology	3 / 3	1705 – Personal Trainer C.A.
PFKN 208	Biomechanics	3 / 3	1705 – Personal Trainer C.A.
PFKN 210	Athletic Training Principles	3 / 4	1705 – Personal Trainer C.A.
PFKN 250	Measurements in Kinesiology	3 / 4	1704 – Group Fitness Instructor C.C.
PFKN 260	Growth and Motor Behavior	3 / 3	1704 – Group Fitness Instructor C.C.
PFKN 270	Personal Trainer Preparation	4 / 5	1705 – Personal Trainer C.A.
PFKN 280	Kinesiology Internship	3 / 3	1705 – Personal Trainer C.A.
PFWT 112	Intro to Weight Training	1 / 2	1704 – Group Fitness Instructor C.C.
PFWT 123	Weight Training I	2 / 3	
PHYS 120	The Art of Physics	4 / 5	
PHYS 200	Intro to Applied Physics	4 / 5	
PSYC 200	Introduction to Psychology	4 / 4	
SOWK 101	Introduction to Social Work	3 / 3	
STPR 145	Foundations Sterile Processing	5 / 6.5	1017 – Sterile Processing Techn. C.C.
STPR 148	Sterile Processing Externship	2 / 2	1017 – Sterile Processing Techn. C.C.
SURG 103	Surgical Asepsis	2 / 2	

*Flat-rated, not covered by financial aid

For future transfer to:

- Central Michigan University
BS Dietetics choose BIOL 203 and BIOL 204; and CHEM 151 and CHEM 152 and CHEM 161 and CHEM 162; and PFHW 123; and PSYC 200.
- Eastern Michigan University
Clinical Science, Histotechnology, or Medical Laboratory Science choose BIOL 127; and CHEM 151 and CHEM 152 and CHEM 161 and CHEM 162; and CHSE 120; and PSYC 200.

- Grand Valley State University (Allied Health Sciences – General Emphasis or Applied Food and Nutrition) choose BIOL 203 and BIOL 204, and CHEM 125, and CHSE 120, and PHYS 120, and PSYC 200.
- Ferris State University (Allied Health) choose PFHW 123, and PSYC 200.
- Michigan State University (Dietetics) choose CHEM 151 and CHEM 161, and CHSE 120, and PSYC 200.
- University of Michigan-Flint (Health Sciences) choose BIOL 127, and CHEM 151 and CHEM 161, and CHSE 100 and CHSE 120, and PSYC 200.
- Wayne State University
BS Medical Laboratory Science choose BIOL 127 and BIOL 203 and BIOL 204; and CHEM 151 and CHEM 152 and CHEM 161 and CHEM 162; and PSYC 200.
BS Mortuary Science choose BIOL 127, and CHSE 100 and CHSE 114 and CHSE 117 and CHSE 120; and COMM 240; and PFHW 163; and PSYC 200.
- Western Michigan University (Clinical Practice in Health Professions) complete a certificate or combination of certificates totaling a minimum of 16 credits and choose any CHEM or PHYS courses from this category, and CHSE 120, and PSYC 200.

General Education – Applied Degrees

Select courses as indicated for specific majors and/or for transfer. The recommended courses in each General Education category may also meet Michigan Transfer Agreement (MTA) requirements. A minimum grade of 2.0 is required for each General Education course. Health Careers Community Required Courses will meet these requirements.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Sciences and Technology Lab

Students working on admission to a Health Career selective admission program should see [Advising Guides - Health and Human Services Division](#) for the specific General Education courses required for their program.

Military (METC) Radiologic Technology Option: Students with Medical Education and Training Campus (METC) Radiologic Technology Transfer Credit should see the Medical Education and Training Campus (METC) Radiologic Technology section at the end of this pathway for specific General Education options required for their program.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach the 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). It is recommended that students select additional course(s) from the Program of Study Required Courses – Limited Choice area of this pathway or from [General Education – Transfer Degrees \(MTA\)](#). See the table and notes below for program specific recommendations for transfer students. Students are encouraged to meet with an Academic Advisor to ensure all requirements are met and for course recommendations.

Course Code	Course Title	Credit / Billing Hours
ANTH 272	Food and Sustainability	3 / 3
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 270	Human Genetics	3 / 3
CHEM 135	Chemistry in Society	4 / 5
CHEM 182	Introductory Organic Chemistry	3 / 3
CHEM 192	Intro Organic Chem Lab	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 240	Interpersonal Communication	3 / 3
ENGL 200	Introduction to Literature	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
MATH 126	Precalculus	5 / 5
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHIL 265	Ethical Issues in Medicine	3 / 3
PHYS 221	Introductory Physics I	4 / 6
RELG 210	Comparative Religions	3 / 3
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

For future transfer to:

- Central Michigan University
BS Dietetics choose from ANTH 272, BIOL 125, CHEM 182 and CHEM 192, ENGL 122 or ENGL 132, STAT 170 or STAT 215, and 2 from ENGL 200, PHIL 101, or RELG 210.
BS Environmental Health and Safety choose from MATH 126, and 2 from ENGL 200, PHIL 101, or RELG 210.
- Eastern Michigan University
Clinical Science, Histotechnology, or Medical Laboratory Science choose from ENGL 200 or RELG 210, and PHIL 265.
- Ferris State University (Allied Health) choose from STAT 215, and 2 from ENGL 200, PHIL 101, or RELG 210.
- Grand Valley State University (Allied Health Sciences – General Emphasis or Applied Food and Nutrition) choose from BIOL 121, BIOL 270, STAT 215, and 2 from ENGL 200, PHIL 101, or RELG 210.
- Michigan State University (Dietetics) choose from CHEM 182, STAT 215, and 2 from ENGL 200, MUSC 199, PHIL 101, or RELG 210.
- University of Michigan-Flint (Health Sciences, any track) choose from BIOL 128, GRMN 121 and GRMN 122 or SPAN 121 and SPAN 122, or PHYS 221.
- Wayne State University
BS in Medical Laboratory Sciences choose from CHEM 251, CHEM 252, CHEM 272, ENGL 122 or ENGL 132, STAT 215, and 2 from ENGL 200, PHIL 101, and RELG 210.
BS in Mortuary Science choose from CHEM 135, COMM 240, ENGL 122 or ENGL 132, PHIL 151, and ENGL 200 or RELG 210.
BHS in Pharmaceutical Sciences choose from ENGL 122 or ENGL 132, and ENGL 200 or RELG 210.
- Western Michigan University choose from GRMN 121 and GRMN 122, or JAPN 121 and JAPN 122, or SPAN 121 and SPAN 122, and PHIL 152.

Minimum Total Credit Hours

60 credits / 60 billing hours

Course Sequence

Students will work with an advisor to determine the course sequence specific to their educational goals.

Medical Education and Training Campus (METC) - Radiologic Technology Option

METC Radiologic Technologist Program Graduates may receive up to 51 college transfer credits (31 credits didactic courses and 20 credits clinical courses) upon submission and review of METC Transcript and Joint Service Transcript to Lansing Community College. The 51 college transfer credits awarded include the satisfaction of the General Education Natural Sciences requirement. An additional 15-17 semester credits to be earned toward the curriculum and

completed at LCC are required to award an associate degree. Transfer credit does not satisfy those additional 15-17 credits required to award the degree.

Joint Service Transcript Program Number

Air Force: L5AQJ4R031 01AA Diagnostic Imaging Apprentice (Phase 1)

Army: 313-68P10 Radiologist Specialist (Phase 1)

Navy: B-313-0126 Advanced Radiographer (Phase 1)

METC Course Dates: Start date: January 2017 - End Date: February 1, 2026

METC courses completed prior to the above date must be submitted to Lansing Community College's Radiologic Technology Program Director for review of course transfer credit.

Major Recommended Courses - *Select one or more if needed to reach 15 LCC credits.*

Course Code	Course Title	Credit / Billing Hours
PFFT 109	Introduction to Fitness	1 / 2
PFHW 163	Healthy Lifestyles	2 / 3
PFHW 181	Stress Management	1 / 1

General Education - Applied Degrees, Recommended Courses – *Minimum 14 credits*

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course)/Communication or Applied Communication – *Select one*
COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*
ANTH 271, Medical Anthropology, 3 credits / 3 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours
- Mathematics or Applied Mathematics – *Select one from the Transfer Degrees (MTA) category*
MATH 119, Math – Applications for Living, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Science and Technology Lab
Satisfied by the 51-credit transfer agreement

Minimum METC Total

66 credits / 15 billing hours

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



American Studies A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0142

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of HIST 211, HIST 212, and HUMS 215 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 215	American Cultural Experience	4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Major Required Courses – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4

Major Required Courses, Limited Choices – *Select one*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Major Required Courses, Limited Choice – Natural Sciences – *Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice - Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4

Course Code	Course Title	Credit / Billing Hours
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer in Secondary Education – Social Studies (History focus) to:

- Central Michigan University and Western Michigan University choose EDUC 220 and GEOG 200.
- Eastern Michigan University, Ferris State University, Grand Valley State University, and Michigan State University choose EDUC 204 and GEOG 200.
- University of Michigan Flint choose GEOG 200 and PSYC 200.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. (For the full list of options, see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ECON 213	U.S. Economic/Business History	3 / 3
ENGL 200	Introduction to Literature	3 / 3

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
GEOG 200	World Regional Geography	4 / 4
HIST 150	African-American History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
POLS 120	American Political System	4 / 4
RELG 150	Intro to World Religions	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	3 / 3

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
HIST 211 – Milestone course
MATH 119 or MATH 120 or STAT 170
Major Required Course, Limited Choice - Natural Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ENGL 255 or 256
HUMS 215 – Milestone course
Major Required Course, Limited Choice - Natural Sciences

Semester III
HIST 212 – Milestone course
Major Required Course, Limited Choice - Social Sciences
Electives

Semester IV
Major Required Course, Limited Choice - Social Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Anthropology A.A.

Career Community: Social Sciences

Curriculum Code: 1621

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of ANTH 120 and ANTH 270 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Sociology/Anthropology Program in the Arts & Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 270	Cultural Anthropology	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 276	Introduction to Archaeology	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 260 or ENGL 122 or ENGL 132	Nonverbal Communication Composition II Honors Composition II	3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
POLS 120 or PSYC 200 or SOCL 120	American Political System Introduction to Psychology Introduction to Sociology	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 130 and STAT 170.
- Eastern Michigan University choose COMM 120 or COMM 130.
- Grand Valley State University (International Relations BA) choose COMM 130 and MATH 120.
- Michigan State University choose COMM 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 and MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and STAT 170.

Major Required Courses, Limited Choice - Anthropology – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 271	Medical Anthropology	3 / 3
ANTH 272	Food and Sustainability	3 / 3
ANTH 280	Forensic Anthropology	3 / 3
ANTH 300	Applied Field Survey Methods	4 / 4

For future transfer to:

- Central Michigan University choose ANTH 280.
- Eastern Michigan University choose ANTH 271 or ANTH 280.
- Grand Valley State University choose ANTH 271.
- Michigan State University choose ANTH 280.
- University of Michigan Flint choose ANTH 280.
- Western Michigan University choose ANTH 280.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from two different disciplines, as indicated for each transfer institution. If specific courses are not noted, select any two courses from different disciplines. A course may also be chosen from the list of LCC General Education Transfer, Humanities and Fine Arts courses.*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTS 102	2D Design	3 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 201	Introduction to Poetry	4 / 4
ENGL 208	Children's Literature	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 290	Shakespeare	4 / 4
GRMN 121 or	Elementary German I	4 / 4
GRMN 122 or	Elementary German II	4 / 4
JAPN 121 or	Elementary Japanese I	4 / 4
JAPN 122 or	Elementary Japanese II	4 / 4
JAPN 201 or	Intermediate Japanese I	4 / 4
JAPN 202 or	Intermediate Japanese II	4 / 4
SPAN 121 or	Elementary Spanish I	4 / 4
SPAN 122 or	Elementary Spanish II	4 / 4
SPAN 201 or	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Course Code	Course Title	Credit / Billing Hours
HIST 150	African-American History	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HIST 220	Michigan History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4
PHIL 212	Philosophy: Modern & Contempory	4 / 4
PHIL 215	Philosophy of Religion	3 / 3
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3

Note: For future transfer to Eastern Michigan University, Michigan State University, University of Michigan Flint, and Western Michigan University choose one HIST and one PHIL course.

Major Required Courses, Limited Choice – Natural Sciences – *Select one. A course may also be chosen from the list of LCC General Education Transfer, Natural Sciences courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6

Course Code	Course Title	Credit / Billing Hours
BIOL 128	Organismal Biology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203 and BIOL 204	Microbiology Microbiology Laboratory	3 / 3 1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3
CHEM 152 and CHEM 162	General Chemistry Lecture II General Chemistry Lab II	3 / 3 1 / 3
CHEM 182 and CHEM 192	Introductory Organic Chemistry Intro Organic Chem Lab	3 / 3 1 / 3
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

For future transfer to:

- Central Michigan University choose BIOL 120.
- Grand Valley State University choose GEOL 221.
- Michigan State University choose BIOL 121 or CHEM 135 or, CHEM 151 and CHEM 161, or PHYS 120.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. See notes below for specific courses for each transfer institution and major. If specific courses are not indicated for your transfer institution, select any Elective courses. Courses already taken for Career Community or Program of Study requirements, will not count for Elective credits. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ANTH 271	Medical Anthropology	3 / 3
ANTH 272	Food and Sustainability	3 / 3
ANTH 280	Forensic Anthropology	3 / 3
BIOL 270	Human Genetics	3 / 3
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
GEOG 200	World Regional Geography	4 / 4
GEOG 202	Geography of North America	3 / 3
GEOG 206	Physical Geography	4 / 4
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
GSCI 100	Intro to Geospatial Tech	3 / 3
HUMS 140	Art of Being Human	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
POLS 120	American Political System	4 / 4
POLS 121	State and Local Government	4 / 4
POLS 201	Intro to Political Science	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 209	Cognitive Psychology	3 / 3
PSYC 210	Brain and Behavior	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 222	Adolescent Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
RELG 150	Intro to World Religions	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

Students planning to complete the Applied Field Study Methods CC or Field Survey Methods CA should choose courses included in those program pathways.

For future transfer to:

- Central Michigan University choose ANTH 271, ENGL 122, PSYC 202, and PSYC 203.
- Eastern Michigan University choose ANTH 271 or ANTH 280, ENGL 122, and SOCL 260.
- Grand Valley State University choose ANTH 272 and GEOL 222.
- Michigan State University choose ANTH 271 and GEOG 206, GEOL 221, and STAT 215.
- University of Michigan Flint choose ANTH 271 and two courses from the same foreign language: GRMN, JAPN, or SPAN 121 and 122.
- Western Michigan University choose two courses from the same foreign language: GRMN, JAPN, or SPAN 121 and 122.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ANTH 120 – Milestone course
ENGL 121 or ENGL 131
POLS 120 or PSYC 200 or SOCL 120
Semester II
ANTH 270 – Milestone course
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or STAT 170
Semester III
ANTH 276
Limited Choice - Anthropology
Limited Choice - Humanities and Fine Arts
Electives as needed for total credits
Semester IV
ANTH 275
Limited Choice - Humanities and Fine Arts
Limited Choice - Natural Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Applied Artificial Intelligence C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1852

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Intended for working professionals in the IT industry who already possess a relevant IT degree or two years of on-the-job experience, this certificate provides students with the training and skills required for applied uses of artificial intelligence (AI) within cloud environments. Students learn core concepts related to data preparation, exploration, and analysis; machine learning, natural language processing, and computer vision; and the technologies required to architect, develop, and update large-scale models in the cloud. This certificate requires experience with topics covered within the Cybersecurity Foundations C.C. (1833). Students lacking sufficient background may be required to complete additional coursework before starting this certificate. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

Completion of CITI 120 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This Applied Artificial Intelligence C.C. is intended for students who have completed Cybersecurity Foundations C.C. (1833), Cybersecurity A.A.S. (1832), or another comparable degree. For detailed admissions requirements, contact the Computer Information Technology Program at 517-267-6406 for assistance.

To be awarded the certificate, a student must earn a minimum grade of 2.0 in each course.

Contact Information

Contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITI 120	Data Analysis with Python	3 / 3
CITI 140	Intro to Machine Learning	3 / 3
CITI 220	Computer Vision	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3
CITO 140	Cloud Development Ops with AWS	3 / 3
CITO 240	Machine Learning with AWS	3 / 3

Minimum Total Credit Hours

18 credits /18 billing hours

Recommended Course Sequence

Semester I
CITI 120
CITO 120
Semester II
CITI 140
CITO 140
Semester III
CITI 220
CITO 240

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Applied Field Survey Methods CC

Career Community: Social Sciences

Curriculum Code: 1836

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Applied Field Survey Methods Certificate of Completion is a focused course of study in the Anthropology program that is designed to introduce students to the methods used to collect and analyze data in hands-on field and lab settings. Students will be introduced to survey methods and principles used in archaeology, geography, geology, and geospatial science. Topics and skills emphasized are site mapping, controlled excavation, on-site documentation, artifact curation, and geospatial data analysis. This certificate includes a field internship at an active archaeological survey location.

The coursework may also be applied to the Anthropology Associate of Arts degree, or the Social Sciences General Associate degree.

Milestone

Completion of ANTH 276 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or Student Services, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ANTH 276	Introduction to Archeology	3 / 3
ANTH 300*	Applied Field Survey Methods	8 / 8
GEOG 206	Physical Geography	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3

Minimum Total Credit Hours

18 credits / 18 billing hours

Recommended Course Sequence

Semester I
ANTH 276 – Milestone course
GEOG 206

Semester II
ANTH 300*
GSCI 100

*8 credits required for completion

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Art, Design, and Media G.A.

Career Community: Art, Design, and Media

Curriculum Code: 1861

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students pursuing careers in the Art, Design, and Media-related fields. The degree includes a common set of courses applicable to all Art, Design, and Media majors and aligns with the requirements of many transfer institutions. Students are encouraged to consult with academic and program advisors early in their studies to identify their specific major and transfer options, if applicable.

Available degree pathways include:

- Art Foundation (Associate of Arts)
- Studio Art (Associate of Fine Arts)
- Graphic Communication (Associate of Applied Arts)
- Digital Media and Design (Associate of Applied Arts)
- Digital Media Specialist (Associate of Applied Arts)
- Digital Media Transfer (Associate of Applied Arts)

Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of DMAC 260 with a grade of 2.0 or higher, or ARTS 102 with a 2.5 or higher, is required to progress in this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Art, Design, and Media Career Community Courses – *These courses are required for all Art, Design, and Media programs (Art Foundation, Digital Media and Design, Digital Media Transfer, Digital Media Specialist, Graphic Communication, Studio Art). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education*

requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTS 102 or DMAC 260	2D Design World Cinema	3 / 4 4 / 4
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 as shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Art Foundation, Digital Media and Design, Graphic Communication, and Studio Art majors choose ARTS 102.

Digital Media Specialist and Digital Media Transfer majors choose DMAC 260.

For future transfer to:

- Central Michigan University, Eastern Michigan University, Ferris State University, and University of Michigan Flint choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University choose COMM 130 and, MATH 119 or MATH 120.
- Western Michigan University choose ENGL 122 or ENGL 132, and MATH 119.

Major Required Courses, Limited Choices – Natural Sciences or Applied Sciences and Technology Lab

Select one lab course as recommended for each major and transfer institution. If a specific course is not indicated for your major or transfer institution, select any recommended course or select from [LCC General Education - Applied Degrees Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Central Michigan University, choose BIOL 120.

Major Required Courses, Limited Choices - *Select 39 credits as recommended for each major and transfer institution. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTH 216	Contemporary Art	4 / 4
ARTS 103	3D Design	3 / 5.25
ARTS 131	Drawing I	3 / 5.25
ARTS 132	Figure Drawing	3 / 5.25
ARTS 151	Color	3 / 5.25
ARTS 153	Drawing II	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 164	Digital Illustration	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 175	Creative Design and Publishing	3 / 4
ARTS 179	Web Design II	3 / 4

Course Code	Course Title	Credit / Billing Hours
ARTS 183	Design History	3 / 3
ARTS 195	Employ/Busn Issues for Artists	1 / 1
ARTS 200	Painting I	3 / 5.25
ARTS 201	Painting II	3 / 5.25
ARTS 202	Design for Innovation	3 / 4
ARTS 226	Storyboards & Animatics	3 / 4
ARTS 229	Web Design III	3 / 4
ARTS 232	Comp Graphics/2D Animation	3 / 4
ARTS 251	Graphic Design Communications	3 / 4
ARTS 252	Graphic Design Publications	3 / 4
ARTS 253	Graphic Design Branding	3 / 4
ARTS 266	Figure Drawing II	3 / 4
ARTS 267	Adv Drawing Digital Sketchbook	3 / 4
ARTS 269	The Portfolio	2 / 2
ARTS 281	Art Internship	3 / 3
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CITD 120	SQL Concepts	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 141	Ethics and Impact of the Media	3 / 3
DMAC 231	Digital Cinematography II	4 / 4
DMAC 232	Video Post-Production II	4 / 4
DMAC 234	Studio Production Techniques	4 / 4
DMAC 240	Employment Issues in Media	2 / 2
DMAC 246	Workshop: Video	2 / 2
DMAC 255	Digital Presentation & Signage	4 / 4
DMAC 295	Media/Cinema Portfolio	2 / 2
DMAC 296	Media/Cinema Internship	3 / 3
EDUC 204	Educational Psychology	3 / 3
ENGL 200	Introduction to Literature	3 / 3
MUSC 171	Sound Design & Production	4 / 4
MUSC 172	Studio Recording	4 / 4
MUSC 197	Electronic Music Production	2 / 3
PHIL 101	Introduction to Philosophy	3 / 3
PHOT 111	Digital Photography I	3 / 3
PHOT 113	Lighting Concepts and Applic	3 / 3

Course Code	Course Title	Credit / Billing Hours
PHOT 120	Still/Motion Capture & Editing	3 / 3
PHOT 200	Content on the Go	3 / 3
PSYC 200	Introduction to Psychology	4 / 4

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Career Community Courses meet this requirement.
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

College-Ready Students (Full-time)

Semester I
ACAD 100 (if waived, add a Career Community course)
ARTS 102 or DMAC 260
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
Limited Choice for students completing the Art, Design, and Media GA

Semester II
Students who have decided on an academic program within the Art, Design, and Media Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester III
Limited Choice for students completing the Art, Design, and Media GA

Semester IV
Limited Choice for students completing the Art, Design, and Media GA

College-Ready Students (Part Time)

Semester I
ACAD 100 (if waived, add a Career Community course)
ARTS 102 or DMAC 260
ENGL 121 or ENGL 131

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170

Semester III
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab
Limited Choice for students completing the Art, Design, and Media GA
Students who have decided on an academic program within the Art, Design, and Media Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice for students completing the Art, Design, and Media GA

Semester V
Limited Choice for students completing the Art, Design, and Media GA

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Art Foundation A.A.

Career Community: Art, Design, and Media

Curriculum Code: 1716

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of ARTS 102, ARTS 103, and ARTS 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art History from the Renaissance	4 / 4
ARTS 102	2D Design	3 / 4
ARTS 103	3D Design	3 / 5.25
ARTS 131	Drawing I	3 / 5.25
ARTS 132	Figure Drawing	3 / 5.25
ARTS 151	Color	3 / 5.25
ARTS 200	Painting I	3 / 5.25
COMM 120 or	Dynamics of Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 as shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose ENGL 122.
- College for Creative Studies choose ENGL 122 and MATH 119.
- Eastern Michigan University (Art Education) choose ENGL 122 and MATH 120.
- Ferris State University Kendall College of Art and Design choose ENGL 122 and, MATH 119 or MATH 120.
- Grand Valley State University choose COMM 120 or 130, and MATH 120.
- Michigan State University choose COMM 130 and, MATH 119 or MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses, Limited Choice – MTA Natural Sciences – *Select two from different disciplines, including one lab course, as indicated for each transfer institution and major. If specific courses are not indicated, choose any 2 recommended courses including one lab course, or choose from [LCC General Education Transfer Degrees: MTA Natural Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120 and a non-BIOL course.
- Eastern Michigan University (Art Education) choose BIOL 125 and ISCI 131.
- Ferris State University Kendall College of Art and Design choose BIOL 120 and PFHW 123.

Major Required Courses, Limited Choice – MTA Social Sciences – *Select two from different disciplines as indicated for each transfer institution. If specific courses are not indicated, choose any two recommended courses from two different disciplines or choose from [LCC General Education Transfer Degrees: MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
COMM 270	Mass Media	3 / 3
COMM 280	Intercultural Communication	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 205	Human Growth and Development	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Eastern Michigan University (Art Education) choose ANTH 270 or COMM 280, and EDUC 204.
- Eastern Michigan University (Studio Art) choose 2 from ANTH 270, COMM 270, or COMM 280.
- Ferris State University Kendall College of Art and Design choose ANTH 270 and COMM 270.
- Grand Valley State University (Art Education) choose EDUC 204 and PSYC 200.
- Michigan State University (Art Education) choose EDUC 204 and PSYC 200.
- University of Michigan Flint (Art Education) choose PSYC 200 and SOCL 120.
- Western Michigan University (Art Education) choose EDUC 204 and PSYC 200.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses to reach the minimum 60 total credits required for this degree. Refer to advising notes for courses recommended for transfer to specific institutions. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 216	Contemporary Art	4 / 4
ARTS 153	Drawing II	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 164	Digital Illustration	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 183	Design History	3 / 3
ARTS 201	Painting II	3 / 5.25
ARTS 202	Design for Innovation	3 / 4
EDUC 230	Exceptional Learners	3 / 3
PSYC 221	Child Development	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

For future transfer to:

- Central Michigan University choose ARTH 216 and ARTS 162 and ARTS 171.
- Eastern Michigan University (Studio Art) choose ARTH 216 and ARTS 162 and EDUC 230.
- Eastern Michigan University (Art Education) choose ARTH 216, ARTS 162, and EDUC 230.
- Ferris State University Kendall College of Art and Design choose ARTH 216 and ARTS 171 and 183.
- Grand Valley State University (Studio Art) choose ARTH 216 and ARTS 153 and ARTS 201.

- Grand Valley State University (ART Education) choose ARTH 216, ARTS 153, and PSYC 221.
- Michigan State University (Studio Art) choose ARTH 216 and ARTS 183 and ARTS 202.
- Michigan State University (Art Education) choose ARTH 216, ARTS 183 or 202, and EDUC 230.
- University of Michigan Flint (Studio Art) choose ARTS 153, 164, and 202.
- University of Michigan Flint (Art Education) choose ARTS 164, PSYC 205, and SOCL 260.
- Western Michigan University (Studio Art) choose ARTH 216 and ARTS 153 and 171.
- Western Michigan University (Art Education) choose ARTS 153, ARTS 171, and EDUC 230.

Minimum Total Credit Hours

60 credits / 72.25 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ARTS 102 – Milestone course
ARTS 131 – Milestone course
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
ARTS 103 – Milestone course
ARTS 132
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Social Science

Semester III
ARTH 211
ARTS 151
ARTS 200
Limited Choice - Natural Sciences
Limited Choice - Social Sciences

Semester IV
ARTH 212
Limited Choice - Natural Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Art History A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0746

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of ARTH 211 and ARTH 212 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – Some courses meet General Education requirements for MTA.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or	Composition I	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 131	Honors Composition I	4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Major Required Courses, Limited Choice – Select two

Course Code	Course Title	Credit / Billing Hours
ARTH 216	Contemporary Art	4 / 4
ENGL 240	The Film as Art	4 / 4
HUMS 160	Mythology	4 / 4

Major Required Courses, Limited Choices – Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Major Required Courses, Limited Choices – Natural Sciences – *Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choices – Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4

Course Code	Course Title	Credit / Billing Hours
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. (For the full list of options, see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTS 102	2D Design	3 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 235	Modern European History	4 / 4
HUMS 215	American Cultural Experience	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
PHIL 211	Philosophy: Ancient and Medieval	4 / 4
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ARTH 216 or ENGL 240 or HUMS 160
ENGL 121 or ENGL 131
Major Required Course, Limited Choice - Natural Sciences

Semester II
ARTH 211 – Milestone course
ARTH 216 or ENGL 240 or HUMS 160
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
Electives

Semester III
ARTH 212 – Milestone course
Major Required Limited Choice
Major Required Course, Limited Choice - Social Sciences
Electives

Semester IV
Major Required Course, Limited Choice - Natural Sciences
Major Required Course, Limited Choice - Social Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technologies A.A.S.

Career Community: Transportation

Curriculum Code: 1791

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Associate Degree will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Students explore various aspects of modern automobile theory and operation, diagnosis, repair, and maintenance for all major systems of the vehicle. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

In addition to the required General Education courses in Math and English, completion of AUTM 111 and AUTM 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity to take State of Michigan as well as the nationally recognized ASE tests throughout this program to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests as well as the cost of most of their automotive textbooks. Select general education courses compliment this degree.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Students completing this curriculum may also be eligible to apply for multiple certificates in Automotive Technologies.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 131	Automotive Engine Repair	4 / 6
AUTM 141	Braking Systems and ABS	4 / 6
AUTM 151	Suspension and Steering	4 / 6
AUTM 161	Auto Heating/Air Conditioning	4 / 6
AUTM 180	Intro to Alternative Fuels	2 / 2
AUTM 211	Automotive Electrical III	4 / 6
AUTM 225	Transmissions and Drivelines	4 / 6
AUTM 270	Gas Eng Drivability Diagnosis	4 / 6
AUTM 273	Lt. Diesel Drivability Diag.	4 / 6
AUTM 275	Ignition/Emission Sys Diag	4 / 6
AUTM 286	xEV Energy & Support Systems	4 / 6
AUTM 288	xEV Propulsion & Drive Systems	4 / 6
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace	3 / 3
	Dynamics of Communication	3 / 3
	Fundamentals Public Speaking	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I	4 / 4
	Technical Writing	3 / 3
	Business Writing	3 / 3
	Honors Composition I	4 / 4
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics	4 / 4
	Math – Applications for Living	4 / 4
	College Algebra	4 / 4
	Introduction to Statistics	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for each General Education course.*

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for each General Education course.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meets this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meets this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meets this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meets this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

72 credits / 99 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
AUTM 102
AUTM 111 – Milestone course
AUTM 141
AUTM 151
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131

Semester II (Spring)
AUTM 113
AUTM 131 – Milestone course
AUTM 161
AUTM 211

Semester III (Summer)
COMM 110 or COMM 120 or COMM 130
Gen Ed – Mathematics or Applied Mathematics

Semester IV (Fall)
AUTM 180
AUTM 225
AUTM 270
AUTM 286
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester V (Spring)
AUTM 273
AUTM 275
AUTM 288
Limited Choice – Natural Sciences Lab or Applied Science and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted



Automotive Technologies C.A.

Career Community: Transportation

Curriculum Code: 1790

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students explore various aspects of modern automobile theory and operation, diagnosis, repair, and maintenance for all major systems of the vehicle. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 111 and AUTM 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity to take State of Michigan as well as the nationally recognized ASE tests throughout this program to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests as well as the cost of most of their automotive textbooks.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 131	Automotive Engine Repair	4 / 6
AUTM 141	Braking Systems and ABS	4 / 6
AUTM 151	Suspension and Steering	4 / 6
AUTM 161	Auto Heating/Air Conditioning	4 / 6
AUTM 211	Automotive Electrical III	4 / 6
AUTM 270	Gas Eng Drivability Diagnosis	4 / 6
AUTM 273	Lt. Diesel Drivability Diag.	4 / 6
AUTM 275	Ignition/Emissions Sys Diag	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

41 credits / 61 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111 – Milestone course
AUTM 141
AUTM 151

Semester II
AUTM 113
AUTM 131 – Milestone course
AUTM 161
AUTM 211

Semester III
AUTM 270
AUTM 273
AUTM 275

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technology: Advanced Electric Drive/ Alternative Fuels C.A.

Career Community: Transportation

Curriculum Code: 1792

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Advanced Electric Drive-Alternative Fuels Certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students will study theory and operation, diagnosis, repair, and maintenance of modern automobile hybrid/electric vehicles, and alternative fueled vehicles. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 111 and AUTM 180 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity throughout this program to take State of Michigan as well as the nationally recognized ASE tests to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests for these specialty areas. Most automotive textbooks are provided as part of this Certificate.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 180	Intro to Alternative Fuels	2 / 2
AUTM 211	Automotive Electrical III	4 / 6
AUTM 270	Gas Eng Drivability Diagnosis	4 / 6
AUTM 280	Electric/Fuel Cell Technology	2 / 2.5
AUTM 282	Gaseous Fuels	3 / 4
AUTM 286	vEV Energy & Support Systems	4 / 6
AUTM 288	xEV Propulsion & Drive Systems	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 45.5 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111 – Milestone course
AUTM 113
AUTM 180 – Milestone course

Semester II
AUTM 211
AUTM 280
AUTM 282

Semester III
AUTM 270
AUTM 286
AUTM 288

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technology: Brakes and Suspension Systems Specialist C.C.

Career Community: Transportation

Curriculum Code: 1793

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Brakes and Suspension Certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students will study theory and operation, diagnosis, repair, and maintenance of modern automobile Brakes/ABS and Suspension systems. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 141 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. Students have the opportunity throughout this program to take State of Michigan as well as the nationally recognized ASE tests to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests for these specialty areas. Most automotive textbooks are provided as part of this Certificate.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 141	Braking Systems and ABS	4 / 6
AUTM 151	Suspension and Steering	4 / 6

Minimum Total Credit Hours

13 credits / 19 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111
AUTM 141 – Milestone course
AUTM 151

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technology: Electrical and HVAC Diagnostic Specialist C.C.

Career Community: Transportation

Curriculum Code: 1794

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Electrical and HVAC certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students will study theory and operation, diagnosis, repair, and maintenance of modern automobile electrical and heat/air conditioning systems. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 111 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity throughout this program to take State of Michigan as well as the nationally recognized ASE tests to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests for these specialty areas. Most automotive textbooks are provided as part of this Certificate.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 161	Auto Heating/Air Conditioning	4 / 6
AUTM 211	Automotive Electrical III	4 / 6

Minimum Total Credit Hours

17 credits / 25 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111 – Milestone course
AUTM 113
Semester II
AUTM 161
AUTM 211

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technology: Engine and Transmission Overhaul Specialist C.C.

Career Community: Transportation

Curriculum Code: 1795

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Engine and Transmission Certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students will study theory and operation, diagnosis, repair, and maintenance of modern automobile Engines, Transmissions, and Drivelines. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 113 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity throughout this program to take State of Michigan as well as the nationally recognized ASE tests to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests for these specialty areas. Most automotive textbooks are provided as part of this Certificate.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 131	Automotive Engine Repair	4 / 6
AUTM 225	Transmissions and Drivelines	4 / 6

Minimum Total Credit Hours

17 credits / 25 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111
AUTM 225

Semester II
AUTM 113 – Milestone course
AUTM 131

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Automotive Technology: Engine Performance and Drivability Specialist C.C.

Career Community: Transportation

Curriculum Code: 1796

Effective: Fall 2025 – Summer 2030

Purpose of the Major

There is a need for highly skilled automotive technicians because automobiles are more complex than ever, and are being kept for a record-breaking length of time. This Engine Performance and Drivability Certificate will give students the training needed to diagnose, repair, and maintain the automobiles of today, as well as the automobiles of tomorrow. Certificate holders may improve their employment opportunities for advancement in this or a related area. Students will study the theory and operation, diagnosis, repair, and maintenance within the automobile drivability and engine performance specialty areas. Students will be trained with the newest and latest tools and equipment in a realistic hands-on laboratory environment.

Milestone

Completion of AUTM 111 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Approximately 70% of the instruction is hands-on laboratory time, and all lab and lectures feature class sizes of less than 16 students to provide generous personal interaction with your instructors. All instructors are ASE certified, and bring their extensive years of experience working within the automotive repair industry to the classroom. All students have the opportunity to take State of Michigan as well as the nationally recognized ASE tests throughout this program to become a certified automotive technician. To assist students with their career goals, LCC Automotive covers the cost of State and ASE tests for these specialty areas. Most automotive textbooks are provided as part of this Certificate.

The Automotive Technology Program is a National Automotive Technicians Education Foundation (NATEF) Certified Training Program, evaluated by the National Institute for Automotive Service Excellence (ASE). The Automotive Program is a Snap-On Diagnostics Training Center and a member of the National Alternative Fuels Training Consortium (NAFTC).

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Automotive Technology Program, West Campus Building, Room M103, telephone number 517-267-6406, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AUTM 102	Automotive/Collision Safety	1 / 1
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 211	Automotive Electrical III	4 / 6
AUTM 270	Gas Eng Drivability Diagnosis	4 / 6
AUTM 273	Lt. Diesel Drivability Diag.	4 / 6
AUTM 275	Ignition/Emission Sys Diag.	4 / 6

Minimum Total Credit Hours

25 credits / 37 billing hours

Recommended Course Sequence

Semester I
AUTM 102
AUTM 111 - Milestone course

Semester II
AUTM 113
AUTM 211

Semester III
AUTM 270
AUTM 273
AUTM 275

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Basic Aviation Technology C.C.

Career Community: Transportation

Curriculum Code: 1037

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate of completion enables a non-licensed individual to develop the knowledge and understanding of basic aviation maintenance practices used to maintain aircraft in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicles. Graduates will have demonstrated technical abilities in aircraft ground handling and servicing, aircraft fueling procedures, parking and mooring, equipment nomenclature and identification, unapproved parts identification, and airport operations. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVGM 111	Aviation General I	4 / 5
AVGM 112	Aviation General II	6 / 8
AVGM 113	Aviation General III	4 / 5
AVGM 114	Materials and Processes	5 / 7

Minimum Total Credit Hours

19 credits / 25 billing hours

Required Course Sequence

Semester I (Fall)
AVGM 111
AVGM 112
AVGM 113
AVGM 114

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Basic Emergency Medical Technician C.C.

Career Community: Health Careers

Curriculum Code: 1853

Effective: Fall 2025 – Summer 2027

Purpose of the Major

All Emergency Medical Services courses are approved by the Michigan Department of Health and Human Services. Basic Emergency Medical Technicians are members of the health care team in the pre-hospital emergency care setting. EMT personnel staff ambulances and are also employed in hospitals, industry, and other public service agencies. They are expected to respond rapidly and effectively to many forms of trauma and medical emergencies and work in close contact with emergency physicians. The job is often fast-paced and always challenging. State licensing is required.

Milestone

Completion of EMTA 121 and EMTA 122 with a 3.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

To be eligible to receive the Basic Emergency Medical Technician Certificate of Completion and apply for National Registry of Emergency Medical Technicians (NREMT) Certification, all courses in this curriculum must be completed with a 3.0 grade or better.

Advising guides and current information regarding program requirements are available through the [LCC EMS webpage](#).

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Emergency Medical Services Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
EMTA 121	EMT Medical Trauma	6 / 6
EMTA 122	EMT Skills	3.5 / 6.75
EMTA 125	EMT Clinical	2.25 / 2.25

Minimum Total Credit Hours

11.75 credits / 15 billing hours

Required Course Sequence

Semester I
EMTA 121 – Milestone course
EMTA 122 – Milestone course
EMTA 125

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Biological Laboratory Techniques C.C.

Career Community: Science and Mathematics

Curriculum Code: 1608

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Biological Laboratory Techniques certificate is a laboratory-intensive curriculum which emphasizes the wide-ranging applications of recombinant DNA technology (genetic engineering) including the preparation of purified DNA, Polymerase Chain Reaction, and DNA "fingerprinting". Graduates are prepared to work in many areas of biotechnology, such as human genetic disease research, improvement of disease-resistance in plants, enhanced crop production, pharmaceutical research, biological cleanup of environmental pollution, forensic science, or genome sequencing projects. If you plan to transfer to a four-year school, please see an academic advisor before enrolling. Not all courses in this program transfer to all colleges as equivalent courses. Students planning to transfer should see an academic advisor before enrolling in any course. This certificate program is designed for students interested in molecular biology, biochemistry, genetics, biotechnology, and forensic technologies, and is used to supplement and strengthen S.T.E.M. laboratory skills in other degree programs. Completing this program prepares students to sit for the industry recognized credentials of BCSI (Bioscience Core Skills Institute evaluation) and BACE (Biotechnology Aptitude and Competency Exam).

Milestone

Completion of BIOL 127, CHEM 151, and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

BIOL 275 is only offered during Fall semester. BIOL 276 and ISCI 245 are only offered during Spring semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Center, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BIOL 127	Cell Biology	4 / 6
BIOL 203	Microbiology	3 / 3
BIOL 204	Microbiology Laboratory	1 / 3
BIOL 275	Molecular Biology I	4 / 6
BIOL 276	Molecular Biology II	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
ISCI 245	S.T.E.M. Workplace Practices	4 / 6

Minimum Total Credit Hours

25 credits / 37 billing hours

Recommended Course Sequence

Semester I
BIOL 127 – Milestone course
CHEM 151 – Milestone course
CHEM 161 – Milestone course
Semester II (Fall)
BIOL 203
BIOL 204
BIOL 275
Semester III (Spring)
BIOL 276
ISCI 245

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Biology A.S.

Career Community: Science and Mathematics

Curriculum Code: 0221

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year university to pursue a baccalaureate degree in Biology with a variety of concentrations. Students completing this curriculum will also satisfy Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). This degree includes a set of courses common to all Science and Mathematics majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 127 and 128, and CHEM 151 and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

BIOL 260 and BIOL 275 are only offered in Fall semester

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 126 or MATH 151	Precalculus Calculus I	5 / 5 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Program of Study Required Courses, Limited Choice – Humanities and Fine Arts -

Select two courses from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#); courses must be from different disciplines.

Program of Study Required Courses, Limited Choice – Social Sciences - *Select two from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#), from different disciplines. Students considering adding Secondary Education Certification in order to teach in Michigan Public Schools are strongly encouraged to select PSYC 200.*

Note: For future transfer (Secondary Education Certification) choose PSYC 200.

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60-credit minimum required for this degree. For information on preferred courses for specific concentrations identified by transfer institutions, consult with a Program Advisor. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
BIOL 270	Human Genetics	3 / 3

Course Code	Course Title	Credit / Billing Hours
CHEM 255	Biological Chemistry	4 / 4
MATH 152	Calculus II	4 / 4

Minimum Total Credit Hours

60 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHEM 151 – Milestone course
CHEM 161 – Milestone course
ENGL 121 or ENGL 131
MATH 126 or MATH 151

Semester II
CHEM 152
CHEM 162
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice – Humanities and Fine Arts

Semester III
BIOL 127 – Milestone course
CHEM 251
Limited Choice – Humanities and Fine Arts
Limited Choice – Social Sciences
Electives as needed to reach the 60 credits required for the degree

Semester IV
BIOL 128 – Milestone course
CHEM 252
CHEM 272
Limited Choice - Social Sciences
Electives as needed to reach the 60 credits required for the degree

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Biotechnology A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 0212

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Biotechnology degree is a laboratory-intensive curriculum which emphasizes the wide-ranging applications of DNA technology including the preparation of gene libraries, Polymerase Chain Reaction forensic DNA methods and bioinformatics. Graduates will be able to work in many areas of biotechnology, such as human genetic disease research, improvement of disease-resistance in plants, enhanced crop production, pharmaceutical research, biological cleanup of environmental pollution, forensic science, or genome sequencing projects. Near the end of the degree, the Science Department will work with interested students to arrange for internships in university or industrial research laboratories to gain further experience. If you plan to transfer to a four-year school, please see an academic advisor before enrolling. Not all courses in this program transfer to all colleges as equivalent courses. Students planning to transfer should see an academic advisor before enrolling in any course. This program is designed for students interested in molecular biology, biochemistry, genetics, biotechnology, and forensic technologies. Completing this program prepares students to sit for the industry recognized credentials from BCSI (Bioscience Core Skills Institute evaluation) and BACE (Biotechnology Aptitude and Competency Exam).

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 127, BIOL 203, BIOL 204, CHEM 151, and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

BIOL 260, BIOL 275, and CHEM 262 are only offered during Fall semester. BIOL 276 and ISCI 245 are only offered during Spring semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department in the Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
BIOL 203	Microbiology	3 / 3
BIOL 204	Microbiology Laboratory	1 / 3
BIOL 270	Human Genetics	3 / 3
BIOL 275	Molecular Biology I	4 / 6
BIOL 276	Molecular Biology II	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 262	Quantitative Analysis	3 / 6
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ISCI 245	S.T.E.M. Workplace Practices	4 / 6
MATH 126	Precalculus	5 / 5
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choices – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one from [LCC General Education - Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
BIOL 128	Organismal Biology	4 / 6
BIOL 260	Botany	4 / 6
CHEM 125	Basic Chemistry	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
CITF 110	Intro Computer Info Systems	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3
PHYS 221	Introductory Physics I	4 / 6
SCIN 287	Science Technology Internship	2-4 / 2-4

Note: If choosing CHEM 125, take it before CHEM 151.

General Education – Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 78 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
ENGL 121 or ENGL 131
CHEM 151 – Milestone course
CHEM 161 – Milestone course
MATH 126
Limited Choice if taking CHEM 125*

*If taking CHEM 125, take CHEM 151/161 during Spring, then take CHEM 152/162 during Summer.

Semester II (Spring)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
BIOL 127 – Milestone course
CHEM 152
CHEM 162
ISCI 245

Semester III (Summer)
STAT 215
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester IV (Fall)
BIOL 203 – Milestone course
BIOL 204 – Milestone course
BIOL 275
CHEM 251
CHEM 262

Semester V (Spring)
BIOL 270
BIOL 276
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Building and Construction Trades G.A.

Career Community: Building and Construction Trades

Curriculum Code: 1851

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Building and Construction General Associate Degree at Lansing Community College introduces students to the expansive world of construction, focusing on key areas such as Building Construction, Construction Management, Civil Technology, and Architecture. Emphasizing practical applications and industry-relevant training, this degree program equips students with the skills needed to thrive in dynamic and demanding roles within the construction field.

Milestone

In addition to the required General Education courses in Math and English, completion of DCTM 102 or TECH 102 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The majority of instruction is hands-on laboratory time, and most lab and lectures feature small class sizes to provide generous personal interaction with your instructors. All instructors bring their extensive years of experience working within their respective industry to the classroom, including all related certifications.

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Trades Technology Department, West Campus, telephone number 517-483-1336, or Student Services, West Campus, telephone number 517-483-5509.

Building and Construction Trades Career Community Courses

These courses are required for all Building and Construction Trades programs (Building Construction, Civil Technology, Construction Management, Energy Management Specialist, Heating and Air Conditioning)). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
DCTM 102 or TECH 102	Industrial/Construction Safety General Industry Safety	2 / 3 2 / 3
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Precalculus Introduction to Statistics	4 / 4 4 / 4 4 / 4 5 / 5 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future majors in Building Construction, Civil Technology, Construction Management, and Energy Management Specialist, choose DCTM 102. For Heating and Air Conditioning and HVAC/R-Energy Management Engineering Technology, choose TECH 102.

For HVAC/R-Energy Management Engineering Technology, choose COMM 130, ENGL 121 or ENGL 124, and MATH 126.

Students considering future transfer, choose MATH 119, MATH 120, MATH 126, or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- For HVAC/R-Energy Management Engineering Technology, choose GEOG 200.
- Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Major Required Courses, Limited Choice

Select 36 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. HUMS 160 meets General Education requirements for MTA. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
ARCH 113	Materials & Methods of Constr.	4 / 6
ARCH 125	Environmental Systems	4 / 4
BLDT 120	Structural Framing	4 / 6
BLDT 130	Building Exterior Construction	4 / 6
BLDT 140	Building Interior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6
BLDT 160	Steel Framing	4 / 6
CIVL 101	Civil Drafting	3 / 4
CIVL 110	Density Certification	2 / 2
CIVL 120	Surveying	4 / 6
CIVL 124	Route Survey	4 / 6
CIVL 131	Traffic Technology	3 / 3
CIVL 135	Soils Technology	3 / 3
CIVL 141	Site Inspection	3 / 3
CIVL 143	Site Dsgn & Layout/Civil Techn	3 / 4
CIVL 241	Statics/Strength of Materials	4 / 5
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
DCTM 103	Codes and Specifications	3 / 3
DCTM 200	Construction Management I	4 / 6
DCTM 201	Construction Management II	4 / 6
DCTM 210	MEP Equipment for Buildings	3 / 3
DCTM 220	BIM for Construction	4 / 6
ELTE 110	Practical Electricity	4 / 6
ELTE 141	National Electrical Code I	4 / 4
ELTE 150	Electric Motor Maintenance	2 / 3
GSCI 210	Global Positioning Systems	3 / 4
HUMS 160	Mythology	4 / 4
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3 / 4
HVAC 113	HVAC/R Piping	3 / 4
HVAC 115	Sheet Metal Fab & Installation	2 / 3
HVAC 120	Heating I	3 / 4
HVAC 130	Air Conditioning I	3 / 4
HVAC 140	Residential Energy	3 / 4
HVAC 201	Mechanical Code	4 / 4
HVAC 220	Heating II	3 / 4
HVAC 221	Introduction to Hydronics	3 / 4

Course Code	Course Title	Credit / Billing Hours
HVAC 230	Air Conditioning II	3 / 4
HVAC 231	Heat Pump	3 / 4
HVAC 240	Refrigeration I	3 / 4
HVAC 241	Refrigeration II	3 / 4
HVAC 251	Fund of Direct Digital Control	3 / 4
LEGL 215	Business Law-Basic Principles	3 / 3
METS 140	Rigging	3 / 4.5
WELD 103	Combination Welding	4 / 6

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course)/Communication
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Full-time

Semester I
ACAD 100
DCTM 102 or TECH 102 - Milestone
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
GEOG 200 or MGMT 234 or SOCL 120
Limited Choice course for students completing the Building and Construction Trades GA

Semester II
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMMM 260 or ENGL 122 or ENGL 132
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170
Limited Choice course(s) for students completing the Building and Construction Trades GA

Semester III
BIOL 120 or CHEM 135 or PHYS 120 or PHYS 200 or PHYS 221
Limited Choice course(s) for students completing the Building and Construction Trades GA
Students who have decided on an academic program within the Building and Construction Trades Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Building and Construction Trades GA
Students who have decided on an academic program within the Building and Construction Trades Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Part-time

Semester I
ACAD 100
DCTM 102 or TECH 102 - Milestone
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
GEOG 200 or MGMT 234 or SOCL 120

Semester II
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMMM 260 or ENGL 122 or ENGL 132
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170
Limited Choice course(s) for students completing the Building and Construction Trades GA

Semester III
BIOL 120 or CHEM 135 or PHYS 120 or PHYS 200 or PHYS 221
Limited Choice course(s) for students completing the Building and Construction Trades GA
Students who have decided on an academic program within the Building and Construction Trades Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Building and Construction Trades GA
Students who have decided on an academic program within the Building and Construction Trades Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester V
Limited Choice course(s) for students completing the Building and Construction Trades GA
Students who have decided on an academic program within the Building and Construction Trades Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Building Construction A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 1766

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Building Construction Degree is designed to prepare students to work as entry-level foremen, superintendents, project managers, estimating/scheduling assistants, as well as laborers (masons, concrete construction, and carpenters). Building Construction professionals plan, direct, or coordinate activities related to the construction and maintenance of buildings and infrastructure. This curriculum incorporates elements required for home construction, renovation work, and small-scale commercial construction. The curriculum provides graduates with a broad foundation of technical and management abilities with an emphasis on job entry skill development, estimating, scheduling, project management, and specialized technical skills related to one of six construction focus areas (masonry, concrete, framing, doors/windows/siding, roofing, and interior installation/finishes).

Milestone

In addition to the required General Education courses in Math and English, completion of DCTM 100 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed TECH 102 with a grade of 2.0 or higher, that will satisfy the DCTM 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Building Construction Technologies Program at the West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BLDT 120	Structural Framing	4 / 6
BLDT 130	Building Exterior Construction	4 / 6

Course Code	Course Title	Credit / Billing Hours
BLDT 140	Building Interior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6
BLDT 180	Builder Pre-Licensure Prep	4 / 4
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
DCTM 102	Industrial/Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
DCTM 200	Construction Management I	4 / 6
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
ELTE 110	Practical Electricity	4 / 6
HVAC 100	Fundamentals of HVAC	3 / 3
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Precalculus Introduction to Statistics	4 / 4 4 / 4 4 / 4 5 / 5 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, MATH 126, or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
ARCH 113	Materials & Methods of Const.	4 / 6
CIVL 120	Surveying	4 / 6
DCTM 210	MEP Equipment for Buildings	3 / 3
METS 140	Rigging	3 / 4.5

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 78 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
BLDT 120
DCTM 100 – Milestone course
DCTM 101
DCTM 102
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170

Semester II (Spring)
BLDT 130
BLDT 150
DCTM 103
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
HVAC 100

Semester III (Fall)
BLDT 140
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
DCTM 200
Limited Choice

Semester IV (Spring)
BLDT 180
ELTE 110
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Business G.A.

Career Community: Business

Curriculum Code: 1821

Effective: Fall 2025 – Summer 2030

Purpose of Major

This degree is designed for students wishing to work in any Business-related field. This degree includes a common set of courses applicable to all Business majors and to many transfer institutions. Students beginning their college study in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and, transfer destination if transfer is a goal. Students may select the Business Transfer Studies degree geared to any transfer major, including Economics, or a specific Associate in Business major (Accounting, Business Administration, Human Resource Management, Insurance and Risk Management, International Business, Management, Marketing), which prepares students to work in the field on completion of the Associate degree and may also allow transfer to specific institutions.

Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's.

Milestone

In addition to the required General Education courses in Math and English, completion of BUSN 118 with a 2.0 or higher, is a key component for success in completing this program.

Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Business Career Community Required Courses – *These courses are required for all Business programs. They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University and Western Michigan University choose COMM 110 and STAT 170.
- Ferris State University choose COMM 130 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Grand Valley State University, Michigan State University, and University of Michigan-Flint choose COMM 130 and MATH 120.

- Northwood University and Oakland University choose MATH 120.
- Siena Heights University choose STAT 170.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

- Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education - Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or 125 or CHEM 135 or GEOG 206 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

Major Required Courses – Limited Choice - Select 24 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required for General Education and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4

Course Code	Course Title	Credit / Billing Hours
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
ANTH 270*	Cultural Anthropology	3 / 3
ASTR 201*	Introductory Astronomy	4 / 5
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
CHEM 135*	Chemistry in Society	4 / 5
CITA 110	Intro to Microsoft Office	3 / 3
CITA 119	Microsoft Word	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 226	Microsoft Excel - Advanced	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 204	Criminal Investigation	4 / 4
COMM 280*	Intercultural Communication	3 / 3
ECON 202*	Principles of Economics-Macro	4 / 4
ENGL 122* or ENGL 132*	Composition II Honors Composition II	4 / 4 4 / 4
GEOG 200*	World Regional Geography	4 / 4
GEOG 206*	Physical Geography	4 / 4
GRMN 121* or JAPN 121* or SPAN 121*	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
GRMN 122* or JAPN 122* or SPAN 122*	Elementary German II Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4 4 / 4
INSU 105	Intro to Risk Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MATH 141*	Calculus with Applications	4 / 4
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3
MUSC 199* or	Music Appreciation	3 / 3
MUSC 240* or	Musical Cultures to 1750	4 / 4
MUSC 241*	Musical Cultures 1750-Present	4 / 4
PFHW 123*	Human Nutrition	3 / 3
PHIL 152*	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SOCL 120*	Introduction to Sociology	4 / 4
STAT 215*	Intro to Probability and Stats	4 / 4

*Indicates Michigan Transfer Agreement (MTA) courses – minimum 2.0 grade needed.

General Education – Applied Degrees

- English Composition
Business Career Community Courses Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Business Career Community Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Business Career Community Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Business Career Community Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

College-Ready Students (Full-time)

Semester I
ACAD 100 (if waived, add a Career Community Required Course)
BUSN 118 – Milestone course
ENGL 121 or ENGL 131
Limited Choice - Natural Science or Applied Science and Technology Lab

Semester II
LEGL 215
MATH 120 or STAT 170
MGMT 225
MKTG 200

Semester III - Summer (Optional)
ACCG 210
ECON 201

Semester IV
ACCG 210 (if no Summer enrollment)
COMM 110 or COMM 130
ECON 201 (if no Summer enrollment)
Students who have decided on an academic program within the Business Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Limited Choice course(s) for students completing the Business GA

Semester V
Limited Choice courses as needed for students completing the Business GA

College-Ready Students (Part-time)

Semester I
ACAD 100 (if waived, add a Career Community Required Course)
BUSN 118 – Milestone course
ENGL 121 or ENGL 131

Semester II
MATH 120 or STAT 170
Limited Choice - Natural Science or Applied Science and Technology Lab

Semester III - Summer (Optional)
MGMT 225
MKTG 200

Semester IV
ACCG 210
COMM 110 or COMM 130 (if Summer enrollment)
MGMT 225 (if no Summer enrollment)
MKTG 200 (if no Summer enrollment)

Semester V
COMM 110 or COMM 130 (if no Summer enrollment)
ECON 201
LEGL 215
Students who have decided on an academic program within the Business Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Limited Choice course(s) for students completing the Business GA

Semester VI
Limited Choice courses as needed for students completing the Business GA

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Business Administration A.B.

Career Community: Business

Curriculum Code: 0243

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of Business Administration on completion of the Associate of Business degree. This degree provides basic instruction in key business areas such as management, marketing, finance, and other key business areas. Graduates may qualify for entry-level hands-on positions. Additional education will enhance an individual's employment and advancement opportunities. Not all courses in this program transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for Business, Enhanced AB, Business Administration Pathway include Davenport University, Eastern Michigan University, Ferris State University (Business Administration – Professional Track), Northwood University, Oakland University, and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of BUSN 118 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
BUSN 201	International Business	3 / 3
BUSN 285	Business Admin Internship	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 228	Organization Behavior	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

BUSN 285 may be substituted based on the recommendation of a Program Advisor.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University choose COMM 110 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Ferris State University choose COMM 130 and STAT 170.
- Northwood University and Oakland University choose MATH 120.
- Siena Heights University choose STAT 170.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab - *Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education, Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or 125 or CHEM 135 or GEOG 206 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

Major Required Courses, Limited Choice – *Select 7 credits, choosing courses as indicated for each transfer institution. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
BUSN 150	Legal Issues: Start Small Busn	2 / 2
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
CITA 110	Intro to Microsoft Office	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
MATH 141	Calculus with Applications	4 / 4
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3

For future transfer to:

- Davenport University choose MGMT 227, MGMT 234, and MKTG 210.
- Eastern Michigan University choose CITF 110 and MGMT 234
- Ferris State University choose MGMT 224 and 4 credits from any Limited Choice.
- Northwood University choose MGMT 200, MGMT 234, and MGMT 335.
- Oakland University choose CITA 110 and MATH 141.
- Siena Heights University choose MGMT 200, MGMT 234, and MKTG 119.

General Education – Applied Degrees

- English Composition or Applied English

Major Required Courses meet this requirement.

- English Composition (second course) or Communication or Applied Communication

Major Required Courses meet this requirement.

- Humanities and Fine Arts or Social Science or Applied Social Science

Major Required Courses meet this requirement.

- Mathematics or Applied Mathematics

Major Required Courses meet this requirement.

- Natural Sciences Lab or Applied Science and Technology Lab

Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ACCG 210
BUSN 118 – Milestone course
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences Lab or Applied Science and Technology Lab

Semester II
ACCG 211
BUSN 201
ECON 201
MATH 120 or STAT 170

Semester III
ECON 202
LEGL 215
MGMT 225
MGMT 228
MKTG 200

Semester IV
BUSN 285
COMM 110 or COMM 130
Limited Choice Courses

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2024 – Summer 2029

Purpose of Program

This degree is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB option allows students to transfer additional credits toward the Bachelor's degrees as noted below. This allows completion of credits required for the AB, AA, or GA, and completion of additional courses required for the Bachelor's degree, as designated by transfer articulation agreements. Required coursework follows for the Business, Enhanced A.B. pathways.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

CHOOSE ONE TRACK:

Degree	Code
Accounting, AB	0162
Business, GA	1821
Business Administration, AB	0243
Business Transfer Studies, AA	1622
Human Resource Management, AB	0712
Insurance and Risk Management, AB	1804

Degree	Code
<u>International Business, AB</u>	0240
<u>Management and Leadership, AB</u>	0245
<u>Marketing, AB</u>	0204

Program of Study Required Courses – Enhanced Degree

Choose one subtrack and complete the courses as listed for that subject area and transfer school.

- [Accounting](#) - transfer to Cleary University, Davenport University in Accounting or Finance, Eastern Michigan University, Ferris State University, Northwood University, Oakland University, Siena Heights University, The University of Olivet, or University of Michigan - Flint
- [Business Administration](#) - transfer to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University (Finance), Oakland University, Siena Heights University, The University of Olivet, or University of Michigan - Flint
- [Business Transfer Studies](#) - transfer to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University (Finance), Oakland University, The University of Olivet, or University of Michigan - Flint
- [Human Resource Management](#) - transfer to Cleary University, Davenport University, Eastern Michigan University, or Ferris State University
- [Insurance and Risk Management](#) - transfer to Cleary University, Davenport University, Ferris State University, or Northwood University
- [International Business](#) - transfer to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Siena Heights University, The University of Olivet, or University of Michigan - Flint
- [Management and Leadership](#) - transfer to Cleary University, Davenport University (Leadership and Organizational Behavior or Management), Eastern Michigan University, Ferris State University, Northwood University, Oakland University, Siena Heights University, The University of Olivet, or University of Michigan - Flint
- [Marketing](#) - transfer to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Siena Heights University, The University of Olivet, or University of Michigan - Flint



Accounting Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2024 – Summer 2029

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Accounting AB 0162, Business GA 1821, or Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Accounting subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Oakland University, Siena Heights University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

Cleary University

Program of Study Required Courses, Limited Choice - Accounting - *Select two*

Course Code	Course Title	Credit / Billing Hours
ACCG 241	Federal Income Tax II	4 / 4
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts - *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

87 credits / 87 billing hours

Davenport University (Accounting or Finance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
ACCG 290	Auditing	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Specialization – *Select one or two courses as indicated for each specialization*

Course Code	Course Title	Credit / Billing Hours
ACCG 241	Federal Income Tax II	4 / 4
ACCG 280	Governmental Accounting	3 / 3
CJUS 103	Criminal Law	3 / 3

- For Accounting or Honors Professional Accountancy, choose ACCG 241 and ACCG 280
- For Accounting Fraud Investigation, choose CJUS 103

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4

Course Code	Course Title	Credit / Billing Hours
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

93 credits / 93 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
STAT 170 or STAT 215	Introduction to Statistics Intro to Probability and Stats	4 / 4 4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
COMM 280	Intercultural Communication	3 / 3

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the original AB major*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

MINIMUM TOTAL CREDIT HOURS

92 credits / 92 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 224	Human Resource Management	3 / 3
MGMT 228	Organization Behavior	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one course from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – Select one

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

97 credits / 97 billing hours

Northwood University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
ACCG 290	Auditing	4 / 4
CITA 110 or CITF 110	Intro to Microsoft Office Intro Computer Info Systems	3 / 3 3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
MGMT 332 or PHIL 152	Ethics for Managers & Leaders Introduction to Ethics	3 / 3 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro to Probability and Stats	3 / 3 4 / 4 4 / 4
POLS 120	American Political System	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

MINIMUM TOTAL CREDIT HOURS

100 credits / 100 billing hours

Oakland University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ENGL 127	Business Writing	3 / 3
MATH 141	Calculus with Applications	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – Select one

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - Statistics – Select one

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Statistics	4 / 4

MINIMUM TOTAL CREDIT HOURS

95 credits / 95 billing hours

Siena Heights University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 260	Accounting Systems	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
STAT 170	Introduction to Statistics	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select 10 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
LEGL 219	Adv Busn Law for Acct Majors	4 / 4

MINIMUM TOTAL CREDIT HOURS

94 credits / 94 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 228	Organization Behavior	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts

- *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

102 credits / 102 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ECON 202	Principles of Economics-Macro	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours



Business Administration Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

The degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Business Administration AB 0243, Business GA 1821, or Business Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Business Administration subtracks of the Business, Enhanced AB for students transferring to Cleary, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Oakland University, Siena Heights University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4

Course Code	Course Title	Credit / Billing Hours
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 13 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	2-5 / 2-5
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Davenport University (Accounting or Finance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 12 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
MGMT 224	Human Resource Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MKTG 120	Sales	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
STAT 170 or STAT 215	Introduction to Statistics Intro to Probability and Stats	4 / 4 4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Program of Study Required Courses, Limited Choice – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

MINIMUM TOTAL CREDIT HOURS

83 credits / 83 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
MGMT 224	Human Resource Management	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one course from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

85 credits / 85 billing hours

Northwood University (Finance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
CITA 110 or CITF 110	Intro to Microsoft Office Intro Computer Info Systems	3 / 3 3 / 3
MATH 141	Calculus with Applications	4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
MGMT 332 or PHIL 152	Ethics for Managers & Leaders Introduction to Ethics	3 / 3 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro to Probability and Stats	3 / 3 4 / 4 4 / 4
POLS 120	American Political System	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

MINIMUM TOTAL CREDIT HOURS

91 credits / 91 billing hours

Oakland University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ENGL 127	Business Writing	3 / 3
MATH 141	Calculus with Applications	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - Statistics – *Select one*

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours

Siena Heights University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ENGL 127	Business Writing	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 229	Public Relations	3 / 3

Program of Study Required Courses, Limited Choice – *Select courses totaling 14 credits*

Any combination of ACCG, BUSN, INSU, LABR, MGMT, or MKTG courses

MINIMUM TOTAL CREDIT HOURS

87 credits / 87 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses - Select one

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts

- Select two courses from different disciplines. Only one World Language course may be selected.

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

87 credits / 87 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
MGMT 234	Diversity in the Workplace	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select 9 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours



Business Transfer Studies Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB tracks allows completion of credits required for employment through the Transfer Studies AA 1622 or Business GA 1821, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Business Transfer Studies subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Oakland University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select 26 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3

Course Code	Course Title	Credit / Billing Hours
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours

Davenport University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences - *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - *Select 12 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
MGMT 224	Human Resource Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MKTG 120	Sales	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
ENGL 127	Business Writing	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3

Program of Study Required Courses, Limited Choice – *Select 8 credits in courses related to the major. Consult a Program Advisor and an advisor from Eastern Michigan University's College of Business to select appropriate courses.*

MINIMUM TOTAL CREDIT HOURS

77 credits / 77 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 228	Organization Behavior	3 / 3

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Mathematics – *Select one*

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

MINIMUM TOTAL CREDIT HOURS

79 credits / 79 billing hours

Northwood University (Finance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
CITA 110 or CITF 110	Intro to Microsoft Office Intro Computer Info Systems	3 / 3 3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MATH 141	Calculus with Applications	4 / 4
MGMT 228	Organization Behavior	3 / 3
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro to Probability and Stats	3 / 3 4 / 4 4 / 4
POLS 120	American Political System	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

MINIMUM TOTAL CREDIT HOURS

99 credits / 99 billing hours

Oakland University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ENGL 127	Business Writing	3 / 3
MATH 141	Calculus with Applications	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - Statistics – *Select one*

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

78 credits / 78 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - *Select 12 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3

Course Code	Course Title	Credit / Billing Hours
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

91 credits / 91 billing hours



Human Resource Management Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Human Resource Management AB 0712, Business GA 1821, or Business Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Human Resource Management subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, and Ferris State University.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses - Limited Choice, English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 7 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

91 credits / 91 billing hours

Davenport University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
BUSN 201	International Business	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MATH 119 or MATH 120	Math – Applications for Living College Algebra	4 / 4 4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

96 credits / 96 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
CITF 110	Intro Computer Info Systems	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Program of Study Required Courses, Limited Choice – *Select one from a different discipline than the one selected for the original AB major*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

MINIMUM TOTAL CREDIT HOURS

95 credits / 95 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 201	International Business	3 / 3
ECON 202	Principles of Economics-Macro	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

98 credits / 98 billing hours



Insurance and Risk Management Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Insurance and Risk Management AB 1804, Business GA 1821, or Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Insurance and Risk Management subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Ferris State University, and Northwood University.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 10 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Davenport University (Risk Management and Insurance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

84 credits / 84 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 260	Starting a Business	4 / 4
CITA 110	Intro to Microsoft Office	3 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 224	Human Resource Management	3 / 3
MGMT 228	Organization Behavior	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one course from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4

Course Code	Course Title	Credit / Billing Hours
GEO 221	Physical Geology	4 / 6
GEO 222	Historical Geology	4 / 6
GEO 230	Environmental Geology	4 / 6
SCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

104 credits / 104 billing hours

Northwood University (Insurance)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
CITA 110 or CITF 110	Intro to Microsoft Office Intro Computer Info Systems	3 / 3 3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 332 or PHIL 152	Ethics for Managers & Leaders Introduction to Ethics	3 / 3 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro Probably and Stats	3 / 3 4 / 4 4 / 4
MKTG 120	Sales	3 / 3
POLS 120	American Political System	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

MINIMUM TOTAL CREDIT HOURS

98 credits / 98 billing hours



International Business Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the International Business AB 0240, Business GA 1821, or Business Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the International Business subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Siena Heights University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 13 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3

Course Code	Course Title	Credit / Billing Hours
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Davenport University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 271	Principles of Finance	3 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 202	Principles of Economics-Macro	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts *- Select a course from the same World Language completed for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
GRMN 122	Elementary German II	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

MINIMUM TOTAL CREDIT HOURS

82 credits / 82 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
STAT 170 or STAT 215	Introduction to Statistics Intro to Probability and Stats	4 / 4 4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Program of Study Required Courses, Limited Choice – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

MINIMUM TOTAL CREDIT HOURS

83 credits / 83 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ECON 202	Principles of Economics-Macro	4 / 4
MGMT 224	Human Resource Management	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one course from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Siena Heights University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 229	Public Relations	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 127	Business Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select 14 credits of 300-level MGMT courses*

MINIMUM TOTAL CREDIT HOURS

83 credits / 83 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

84 credits / 84 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
MGMT 234	Diversity in the Workplace	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select 9 credits*

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
ACCG 160	Payroll Systems and Taxes	2 / 2
ACCG 161	Accounting with Quickbooks	2 / 2
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 221	Intermediate Accounting II	4 / 4
ACCG 230	Cost/Managerial I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ACCG 241	Federal Income Tax II	4 / 4
ACCG 245	Accounting Internship	2 / 2

Course Code	Course Title	Credit / Billing Hours
ACCG 260	Accounting Systems	4 / 4
ACCG 271	Principles of Finance	3 / 3
ACCG 280	Governmental Accounting	3 / 3
ACCG 290	Auditing	4 / 4
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours



Management and Leadership Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Marketing and Leadership AB 0245, Business GA 1821, or Business Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Management and Leadership subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Oakland University, Siena Heights University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences - *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - *Select 8 credits*

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Davenport University (Leadership and Organizational Behavior or Management)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
CITF 110	Intro Computer Info Systems	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Program of Study Required Courses, Limited Choice – *Select one from a different discipline than the one completed for the original AB major*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

96 credits / 96 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 201	International Business	3 / 3
ECON 202	Principles of Economics-Macro	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – Select one course from a different discipline than selected for the base associate degree.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

95 credits / 95 billing hours

Northwood University (Management)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
CITA 110	Intro to Microsoft Office	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
MGMT 332 or PHIL 152	Ethics for Managers & Leaders Introduction to Ethics	3 / 3 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro to Probability and Stats	3 / 3 4 / 4 4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

MINIMUM TOTAL CREDIT HOURS

96 credits / 96 billing hours

Oakland University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ENGL 127	Business Writing	3 / 3
MATH 141	Calculus with Applications	4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - Statistics – *Select one*

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

MINIMUM TOTAL CREDIT HOURS

95 credits / 95 billing hours

Siena Heights University (Business)

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MKTG 119	Mktg/Manage Your Professional Image	3 / 3
MKTG 229	Public Relations	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts

- Select two courses from different disciplines. Only one World Language course may be selected.

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

99 credits / 99 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ECON 202	Principles of Economics-Macro	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

90 credits / 90 billing hours



Marketing Track, Business, Enhanced A.B.

Career Community: Business

Curriculum Code: 1822

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree track is designed for students wishing to transfer to a partner institution with a 3+1 articulation agreement with Lansing Community College. This Enhanced AB track allows completion of credits required for employment through the Marketing AB 0204, Business GA 1821, or Business Transfer Studies AA 1622, and/or completion of additional courses required for the Bachelor's degree as noted below and as designated by transfer articulation agreements. Required coursework follows for the Marketing subtracks of the Business, Enhanced AB for students transferring to Cleary University, Davenport University, Eastern Michigan University, Ferris State University, Northwood University, Siena Heights University, The University of Olivet, and University of Michigan-Flint.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the appropriate School of Business Academic Advisor (listed below) to schedule an advising appointment.

Students with Last Names A-K, schedule an appointment with [Angela Resseguie](#).

Students with Last Names L-Z, schedule an appointment with [Michael Steibel](#).

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Cleary University

Program of Study Required Courses, Limited Choice - English Composition - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine

Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice – *Select 11 credits*

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
BUSN 251	Understanding Investments	3 / 3
BUSN 260	Starting a Business	4 / 4
BUSN 285	Business Admin Internship	3 / 3
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 201	Time Management for Business	1 / 1
MGMT 202	Managing Difficult People	1 / 1
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3

Course Code	Course Title	Credit / Billing Hours
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280	Mgmt/Leadership Internship	3 / 3
MGMT 300	Leading for Possibility	3 / 3
MGMT 304	Organization Development	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MGMT 332	Ethics for Managers & Leaders	3 / 3
MGMT 335	Managerial Statistics	3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MGMT 345	Strategic Management	3 / 3

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Davenport University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

87 credits / 87 billing hours

Eastern Michigan University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
CITF 110	Intro Computer Info Systems	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

93 credits / 93 billing hours

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 201	International Business	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts

- Select two courses from different disciplines. Only one World Language course may be selected.

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math-Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

92 credits / 92 billing hours

Northwood University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 271	Principles of Finance	3 / 3
CITA 110	Intro to Microsoft Office	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
MGMT 332 or PHIL 152	Ethics for Managers & Leaders Introduction to Ethics	3 / 3 4 / 4
MGMT 335 or STAT 170 or STAT 215	Managerial Statistics Introduction to Statistics Intro to Probability and Stats	3 / 3 4 / 4 4 / 4

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

89 credits / 89 billing hours

Oakland University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 110	Intro to Microsoft Office	3 / 3
ENGL 127	Business Writing	3 / 3
MATH 141	Calculus with Applications	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts – *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3

Course Code	Course Title	Credit / Billing Hours
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences – *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Program of Study Required Courses, Limited Choice - Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - Statistics – *Select one*

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

MINIMUM TOTAL CREDIT HOURS

95 credits / 95 billing hours

Siena Heights University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3

Program of Study Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

83 credits / 83 billing hours

The University of Olivet

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ECON 202	Principles of Economics - Macro	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Program of Study Required Courses, Limited Choice - English Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

MINIMUM TOTAL CREDIT HOURS

87 credits / 87 billing hours

University of Michigan - Flint

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 201	International Business	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
ECON 202	Principles of Economics - Macro	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Program of Study Required Courses, Limited Choice - *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Program of Study Required Courses, Limited Choice - Humanities and Fine Arts - *Select two courses from different disciplines. Only one World Language course may be selected.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 202	Intermediate Japanese II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Program of Study Required Courses, Limited Choice - Natural Sciences - *Select one course from a different discipline than selected for the base associate degree.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

MINIMUM TOTAL CREDIT HOURS

96 credits / 96 billing hours



Business Transfer Studies A.A.

Career Community: Business

Curriculum Code: 1622

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major focuses on preparing students for transfer to a four-year institution with the goal of admission to the College of Business in any major offered by that institution, including Economics for students wishing to earn a Bachelor of Business Administration in Economics. Not all institutions offer all majors. Institutions and major areas for which this pathway is designed are listed below:

- Central Michigan University (Accounting, Economics, Finance, General Management, Hospitality Services Administration, Human Resources Management, International Business, Law and Economics, Logistics Management, Marketing, Marketing: Professional Sales Concentration, Personal Financial Planning, Purchasing and Supply Management, Real Estate Development and Finance)
- Eastern Michigan University (Accounting, Economics, Human Resources Management, International Business, Management, Purchasing/Supply Chain Management, Marketing, Sales)
- Ferris State University (Advanced Fleet Management, Human Resource Management, International Business Management, Risk Management and Insurance, Lean Systems, Leadership and Project Management, Operations and Supply Management, Small Business Entrepreneurship)
- Grand Valley State University (Accounting, Economics, Finance, General Business, General Management, Human Resource Management, International Business, Marketing, Marketing: Distribution and Logistics Emphasis, Marketing: Sales Emphasis, Operations Management, Supply Chain Management)
- Michigan State University (Accounting, Finance, Hospitality Business, Human Resources Management, Management, Marketing, Supply Chain Management)
- Oakland University (Accounting, Economics, General Business, Human Resources Management, Management, Marketing)
- University of Olivet (Accounting, Business Administration, Business Analysis in Insurance, Financial Planning, Insurance and Risk Management, Management, Marketing)
- University of Michigan Flint (Accounting, Entrepreneurship and Innovation Management, Finance, General Business, International Business, Marketing, Operations and Supply Chain Management, Organizational Behavior and Human Resources Management)
- Western Michigan University (Accounting, E-Business Design, Economics, Finance, General Business, Human Resource Management, Integrated Supply Chain Management, Management, Marketing, Marketing: Advertising and Promotion,

Marketing: Food and Consumer Package Goods, Marketing: Sales and Business, Personal Financial Planning)

Milestone

In addition to the required General Education courses in Math and English, completion of BUSN 118 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Business, Enhanced AB with Business Transfer Studies Option

Central Michigan University, Eastern Michigan University, Ferris State University, and Oakland University allow students to transfer additional credits toward the Bachelor's degree. Students wishing to transfer should complete the requirements for the Business Transfer Studies AA with transfer to Central Michigan University, Eastern Michigan University, Ferris State University (Business Administration with Concentration), or Oakland University; then, complete the Business, Enhanced AB requirements. The Business, Enhanced AB degree, Business Transfer Studies track, meets requirements for transfer to Central Michigan University, Eastern Michigan University, Ferris State University (Business Administration with Concentrations), or Oakland University in the following majors:

- Central Michigan University (Accounting, Economics, Finance, General Management, Hospitality Services Administration, Human Resources Management, International Business, Law and Economics, Logistics Management, Marketing, Marketing: Professional Sales Concentration, Personal Financial Planning, Purchasing and Supply Management, Real Estate Development and Finance)
- Eastern Michigan University (Accounting, Economics, Human Resources Management, International Business, Management, Purchasing/Supply Chain Management, Marketing, Sales)
- Ferris State University – Business Administration with Concentrations (Advanced Fleet Management, Human Resource Management, International Business Management, Risk Management and Insurance, Lean Systems, Leadership and Project Management, Operations and Supply Management, Small Business Entrepreneurship)

- Oakland University (Accounting, Economics, General Business, Human Resources Management, Management, Marketing)

Career-Specific AB Options

The coursework in the Business Transfer Studies A.A. Pathway does not prepare students to work in the field of their choice on completion of the Associate's degree. Students who wish to work in their field of choice on completion of the Associate's degree should select one of the other degree pathways in the School of Business (i.e. a major in Accounting, Business Administration, Human Resource Management, Insurance and Risk Management, International Business, Management and Leadership, or Marketing). Students who wish to work in the field on completion of the A.B. and also transfer to a four-year institution with the majority of their coursework accepted for transfer may complete the coursework for the Business, Enhanced AB degree related to a specific AB pathway.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law–Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Ferris State University and Grand Valley State University choose COMM 130, and STAT 170.
- Eastern Michigan University and Oakland University, choose STAT 170.
- Michigan State University and University of Michigan Flint, choose COMM 130, and MATH 120.
- University of Olivet and Western Michigan University, choose MATH 120.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select two courses as indicated for each major and transfer institution. If specific courses are not noted, select any two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 121 or	Elementary German I	4 / 4
GRMN 122 or	Elementary German II	4 / 4
JAPN 121 or	Elementary Japanese I	4 / 4
JAPN 122 or	Elementary Japanese II	4 / 4
JAPN 201 or	Intermediate Japanese I	4 / 4
JAPN 202 or	Intermediate Japanese II	4 / 4
SPAN 121 or	Elementary Spanish I	4 / 4
SPAN 122 or	Elementary Spanish II	4 / 4
SPAN 201 or	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4
PHIL 152	Introduction to Ethics	4 / 4

For future transfer to:

- Central Michigan University, Davenport University, Ferris State University, Grand Valley University, Michigan State University, Northwood University, Sienna Heights University, University of Michigan-Flint, and Western Michigan University – Choose PHIL 152, and a second course from a discipline other than PHIL.
- International Business majors only - Central Michigan University, Ferris State University, Grand Valley State University, and University of Michigan Flint choose GRMN 121 or JAPN 121 or SPAN 121, and PHIL 152.

Major Required Courses, Limited Choice – Natural Sciences - *Select two courses from different disciplines as indicated for each transfer institution. One must be a lab course. If specific courses are not noted, select any two courses below from different disciplines or from [LCC General Education, MTA, Natural Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan choose BIOL 120 and another course from a different discipline.
- Eastern Michigan University, choose BIOL 120 or BIOL 125, and one from CHEM 135, GEOG 221, or ISCI 131.
- Northwood University choose BIOL 120, and another course from a discipline other than BIOL.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences - *Select one course as indicated for each transfer institution. If specific courses are not noted, select any course from a discipline other than ECON or from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 201	Intro to Political Science	3 / 3

Note: For future transfer to Eastern Michigan University, choose ANTH 270 or POLS 201.

General Education – Transfer (MTA)

- English Composition
Major Required Courses will meet this requirement.
- English Composition (second course) or Communication
Major Required Courses will meet this requirement.

- Humanities and Fine Arts
Major Required Limited Choice Courses will meet this requirement.
- Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses will meet this requirement.
- Social Sciences
Major Required and Limited Choice Courses will meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for the degree. See the notes below for specific course selections for each transfer institution and major. (For the full list of options, see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 220	Intermediate Accounting I	4 / 4
ACCG 240	Federal Income Tax I	4 / 4
ANTH 270	Cultural Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BUSN 201	International Business	3 / 3
BUSN 250	Personal Finance	3 / 3
CHEM 135	Chemistry in Society	4 / 5
CITA 110	Intro to Microsoft Office	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITP 110	Intro to Programming – Python	4 / 4
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 204	Criminal Investigation	4 / 4
COMM 280	Intercultural Communication	3 / 3
ECON 120	Power, Authority, and Exchange	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
ECON 213	U.S. Economic/Business History	3 / 3
ECON 260	Comparative Economic Systems	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
GEOG 200	World Regional Geography	4 / 4
GEOG 206	Physical Geography	4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4
INSU 105	Prin of Managing Evolving Risk	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
MATH 120	College Algebra	4 / 4
MATH 141	Calculus with Applications	4 / 4
MGMT 224	Human Resource Management	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 229	Public Relations	3 / 3
MUSC 199 or MUSC 240 or MUSC 241	Music Appreciation Musical Cultures to 1750 Musical Cultures 1750-Present	3 / 3 4 / 4 4 / 4
PFHW 123	Human Nutrition	3 / 3
PHIL 152	Introduction to Ethics	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

INSU 105, INSU 110, INSU 125, and INSU 175 are not highly transferrable and therefore should only be selected when students are preparing to transfer to the institutions which will accept the courses as noted below.

For future transfer to:

- Central Michigan University, Ferris State University, Grand Valley State University, and University of Michigan-Flint (International Business majors), choose four credits of the same foreign language chosen to meet the Humanities requirement, based on proficiency testing, ACCG 211 and ECON 202.
- Central Michigan University (Economics majors), choose ACCG 211, ECON 120, and ECON 202.
- Central Michigan University (all other majors), Eastern Michigan University, and Ferris State University (all majors except International Business), choose ACCG 211, ECON 202, and ENGL 122 or ENGL 132.

- Grand Valley State University (all majors except International Business), choose ACCG 211, ECON 202, and MATH 120.
- Michigan State University (all majors) choose ECON 202, STAT 215, and ACCG 211 or CITP 110.
- Oakland University and Western Michigan University choose ACCG 211, ECON 202, and ENGL 122 or ENGL 132.
- University of Olivet (Insurance and Risk Management majors only) choose INSU 105, INSU 110, INSU 125, and INSU 175.
- University of Olivet (all other majors) choose ACCG 211, ECON 202, and STAT 215.
- University of Michigan Flint (all majors except International Business), choose ACCG 211, ECON 202, and MATH 141.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118 – Milestone course
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences
Semester II
ECON 201
LEGL 215
MATH 120 or STAT 170
MKTG 200
Semester III
ACCG 210
MGMT 225
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences
Limited Choice – Social Sciences
Semester IV
COMM 110 or COMM 130
Limited Choice – Humanities and Fine Arts
Electives as needed for total credits and transfer requirements

Semester V
Electives as needed for total credits and transfer requirements

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Chemical Technology A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 0163

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Graduates with associate degrees in Chemical Technology are in great demand by the chemical industry. This program prepares students to work with chemists and chemical engineers in many settings. Research, development, and production of pharmaceuticals, agricultural chemicals, and plastics as well as related functions such as sales and technical writing are some of the opportunities that are available to persons with this type of training. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 127, CHEM 151, and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department in the Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4

Course Code	Course Title	Credit / Billing Hours
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 262*	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ISCI 245**	S.T.E.M. Workplace Practices	4 / 6
MATH 126	Precalculus	5 / 5
PHYS 221	Introductory Physics I	4 / 6
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

*CHEM 262 is only offered in Fall.

**ISCI 245 is only offered in Spring.

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choices – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one from [LCC General Education, Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#).*

Major Required Courses, Limited Choice – *Select 4 credits*

Course Code	Course Title	Credit / Billing Hours
BIOL 203	Microbiology	3 / 3
BIOL 204	Microbiology Laboratory	1 / 3
CHEM 125	Basic Chemistry	4 / 4
PHYS 222	Introductory Physics II	4 / 6
SCIN 287	Science Technology Internship	2-4 / 2-4

Note: If choosing CHEM 125, take it before CHEM 151. Choosing CHEM 125 may add an additional semester to completing this pathway. Work with your advisor to plan your course sequence.

General Education – Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 74 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BIOL 127 – Milestone course
CHEM 151 – Milestone course
CHEM 161 – Milestone course

Semester I
ENGL 121 or ENGL 131
Limited Choice if taking CHEM 125

Note: If taking CHEM 125, take CHEM 151/161 during Semester II, then take CHEM 152/162 during the summer.

Semester II
CHEM 152
CHEM 162
ISCI 245
MATH 126
Limited Choice

Semester III
CHEM 251
CHEM 262
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
STAT 215
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester IV
CHEM 252
CHEM 272
PHYS 221
Limited Choice, if needed

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Chemistry A.S.

Career Community: Science and Mathematics

Curriculum Code: 0117

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of CHEM 151 and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department in the Arts & Sciences Building, Room 3203, telephone number 517-483-1092 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 262	Quantitative Analysis	3 / 6

Course Code	Course Title	Credit / Billing Hours
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Major Required Courses – Limited Choice – Social Sciences- *Select two courses, from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#).*

Notes:

For future transfer (Secondary Education Certification) choose PSYC 200.

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

General Education – Transfer Degree (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the minimum 60 total credits required for this degree. For information on preferred courses for specific concentrations identified by transfer institutions, consult with an Academic or Program Advisor. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
CHEM 255	Biological Chemistry	4 / 4
MATH 253	Calculus III	4 / 4
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Minimum Total Credit Hours

60 credits / 73 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHEM 151 – Milestone course
CHEM 161 – Milestone course
ENGL 121 or 131
MATH 151
Limited Choice – Social Sciences
Semester II
CHEM 152
CHEM 162

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 152
Limited Choice - Humanities and Fine Arts

Semester III
BIOL 127
CHEM 251
CHEM 262
Limited Choice - Social Sciences
Elective courses as needed for total credits

Semester IV
CHEM 252
CHEM 272
Limited Choice - Humanities and Fine Arts
Elective course as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Child Development and Early Education A.A.A.

Career Community: Education and Human Services

Curriculum Code: 1637

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree program prepares individuals to work in early childhood education and care programs as a lead teacher, teacher assistant, or program director and/or transfer to a four-year institution to major in Education with Michigan teacher certification in Birth-Pre-K and Pre-K – 3. The Child Development and Early Education Associate in Applied Arts Degree at Lansing Community College is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the National Association for the Education of Young Children (NAEYC), 1401 H Street NW, Suite 600, Washington, DC 20005. The curriculum is aligned with the NAEYC Professional Standards and Competencies for Early Childhood Educators, the Michigan Core Knowledge and Core Competencies for the Early Care and Education Workforce, and the Michigan Department of Education Birth-Kindergarten Standards for Teacher Certification. Students learn to plan and implement high quality, developmentally appropriate programs for children birth to age 12 in a variety of early childhood education settings. Graduates of the associate degree program meet the educational requirements for childcare center program directors as specified by the State of Michigan Child Care Licensing Bureau. This degree articulates with certain Child Development/Early Education bachelor degrees. Several semesters of daytime field work in early education and childcare settings are required.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of CHDV 100, CHDV 101, CHDV 111, and EDUC 204 or EDUC 220 with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This degree is designed for students seeking an associate degree. It is also for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Criminal background checks and DHHS Central Registry Clearance are required for students in CHDV field placement classes to meet State of Michigan Child Care Licensing regulations. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement.

Students enrolled in CHDV 284 may be required to complete a TB test for field placement.

A student must earn a minimum grade of 2.0 in all courses to receive this degree.

To finish this Associate's Degree in the shortest possible time, students must enroll in CHDV 100, CHDV 101, and CHDV 111 in the first semester.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Child Development Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or Student Services, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 135	Inclusion for Every Learner	3 / 3
CHDV 215	Infant Toddler Program Dev	4 / 4
CHDV 220	Preschool Curriculum Approach	4 / 4
CHDV 230	Early Childhood Program Admin	3 / 3
CHDV 284	Early Childhood Practicum	5 / 5
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
EDUC 204 or EDUC 220	Educational Psychology Foundations of Education	3 / 3 3 / 3

Course Code	Course Title	Credit / Billing Hours
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Pre-K – 3 and Pre-K – 6) choose EDUC 220, ENGL 122 or ENGL 132, and MATH 120.
- Eastern Michigan University (Early Childhood Comprehensive) choose ENGL 122 or ENGL 132, and MATH 120.
- Ferris State University choose EDUC 220, ENGL 122 or ENGL 132, and MATH 120.
- Grand Valley State University choose EDUC 204, ENGL 122 or ENGL 132, and MATH 120.
- Michigan State University choose COMM 130, EDUC 204, and MATH 120.
- Western Michigan University choose COMM 130, EDUC 220, and MATH 119.

Major Required Courses, Limited Choices – Humanities and Fine Arts – *Select two from different disciplines (alpha course codes), as indicated for each transfer institution and major. If specific courses are not indicated, choose any two courses from different disciplines.*

Course Code	Course Title	Credit / Billing Hours
ENGL 208	Children’s Literature	4 / 4
HIST 211 or HIST 212 or HIST 220	U.S. History to 1877 U.S. History: 1877 to Present Michigan History	4 / 4 4 / 4 4 / 4
MUSC 199	Music Appreciation	3 / 3
RELG 150	Intro to World Religions	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

For future transfer to:

- A program for K-12 certification (Pre-K – 3 or Pre-K – 6) choose ENGL 208.
- Central Michigan University (Pre-K – 3 or Pre-K – 6) choose HIST 220.
- Eastern Michigan University (Elementary Comprehensive or Early Childhood Comprehensive) choose HIST 220.
- Ferris State University (Pre-K – 3) choose HIST 220.
- Grand Valley State University (Pre-K – 6) choose HIST 211 or HIST 212.
- Michigan State University choose HIST 220.
- Western Michigan University choose RELG 150.

Major Required Courses, Limited Choice - Natural Sciences – *Select two from different disciplines, as indicated for each transfer institution and major. If specific courses are not indicated, choose any two courses from different disciplines. One must be a lab course.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
ISCI 121	Physical Science Concepts	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University (Early Childhood Development) choose BIOL 120 and CHEM 135.
- Eastern Michigan University (Children and Families) choose BIOL 125, and CHEM 135 or PFHW 123.
- Ferris State University (Pre-K – 6) choose BIOL 125 and ISCI 121.
- Grand Valley State University (Pre-K – 6) choose BIOL 125 and ISCI 121.
- Michigan State University choose BIOL 120 and PHYS 120.
- Western Michigan University choose BIOL 120 and PHYS 120.

Major Required Courses, Limited Choice – *Select two credits*

Course Code	Course Title	Credit / Billing Hours
CHDV 122	Creativity and Play	1 / 1
CHDV 123	Literacy and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
CHDV 129	Caring for Youngest Learners	2 / 2
CHDV 132	Leadership Early Childhood Ed	2 / 2
CHDV 222	Caring for School Age Children	2 / 2

Note: For future transfer to Grand Valley State University choose CHDV 222.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
CHDV 100 – Milestone course
CHDV 101 – Milestone course
CHDV 111 – Milestone course (Fall and Spring offering only)
ENGL 121 or ENGL 131

Semester II (Spring)
CHDV 220 (Spring offering only)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
EDUC 204 or EDUC 220 – Milestone course
MATH 119 or MATH 120 or STAT 170

Semester III (Fall)
CHDV 135 (Fall offering only)
CHDV 215 (Fall offering only)
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences
Limited Choice

Semester IV (Spring)
CHDV 230 (Spring offering only)
CHDV 284 (Spring offering only)
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences
Limited Choice (if needed)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Child Development and Early Education C.A.

Career Community: Education and Human Services

Curriculum Code: 0133

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate program prepares individuals for positions as assistant teachers or teachers in early childhood education and care programs. The curriculum is aligned with the NAEYC (National Association for the Education of Young Children) Professional Standards and Competencies for Early Childhood Educators, the Michigan Core Knowledge and Core Competencies for the Early Care and Education Workforce, and the Michigan Department of Education Birth-Kindergarten Standards for Teacher Certification. Courses for the certificate can be applied toward the associate degree. This curriculum requires four semesters to complete. Several semesters of daytime field work in early education and child care settings is required.

Milestone

Completion of CHDV 100, CHDV 101, and CHDV 111 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses to receive this certificate.

Criminal background checks and DHHS Central Registry Clearance are required for students in CHDV field placement classes to meet State of Michigan Child Care Licensing regulations. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement.

Students enrolled in CHDV 284 may be required to complete a TB test for field placement.

To finish this Certificate in the shortest possible time, students must enroll in CHDV 100, CHDV 101, and CHDV 111 in the first semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Child Development and Early Education Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 135	Inclusion for Every Learner	3 / 3
CHDV 215	Infant Toddler Program Dev	4 / 4
CHDV 220	Preschool Curriculum Approach	4 / 4
CHDV 230	Early Childhood Program Admin	3 / 3
CHDV 284	Early Childhood Practicum	5 / 5

Major Required Courses, Limited Choice- *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4

Major Required Courses, Limited Choice - *Select one or two courses, minimum of 2 credits*

Course Code	Course Title	Credit / Billing Hours
CHDV 122	Creativity and Play	1 / 1
CHDV 123	Literacy and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
CHDV 129	Caring for Youngest Learners	2 / 2
CHDV 132	Leadership Early Childhood Ed	2 / 2
CHDV 222	Caring for School Age Children	2 / 2

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

36 credits / 36 billing hours

Recommended Course Sequence

Semester I (Fall)
CHDV 100 – Milestone course
CHDV 101 – Milestone course
CHDV 111 – Milestone course (Fall and Spring offering only)
Semester II (Spring)
CHDV 220 (Spring offering only)
CHDV 230 (Spring offering only)
ENGL 121 or 131
Semester III (Fall)
CHDV 135 (Fall offering only)
CHDV 215 (Fall and Summer offering only)
Semester IV (Spring)
CHDV 284 (Spring offering only)
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Child Development and Early Education C.C.

Career Community: Education and Human Services

Curriculum Code: 1815

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate program prepares individuals for gainful, entry-level positions as assistant teachers, lead teachers, or program directors in early childhood education and care programs. This certificate can be used for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. The curriculum is aligned with the NAEYC (National Association for the Education of Young Children) Professional Standards and Competencies for Early Childhood Educators, the Michigan Core Knowledge and Core Competencies for the Early Care and Education Workforce, and the Michigan Department of Education Birth-Kindergarten Standards for Teacher Certification. Courses for the certificate can be applied toward the associate degree. This curriculum requires two semesters to complete. One course of daytime field work in an early education and child care settings is required.

Milestone

Completion of CHDV 100, CHDV 101, and CHDV 111 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses to receive this certificate.

Criminal background checks and DHHS Central Registry Clearance are required for students in CHDV 111 to meet State of Michigan Child Care Licensing regulations. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement.

CHDV 111 should be completed in the first semester, as it is a prerequisite for CHDV 230.

Students seeking immediate employment, select CHDV 230 plus a one-credit elective (CHDV 122 or CHDV 124). Students seeking to transfer to a four-year college or university, select ENGL 121, EDUC 204, or EDUC 220.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Child Development and Early Education Program, Health and Human Services

Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 123	Literacy and Play	1 / 1
CHDV 129	Caring for Youngest Learners	2 / 2

Major Required Courses, Limited Choice – *Select 4 credits.*

Course Code	Course Title	Credit / Billing Hours
CHDV 122	Creativity and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
CHDV 230	Early Childhood Program Admin	3 / 3
EDUC 204 or EDUC 220	Educational Psychology Foundations of Education	3 / 3 3 / 3
ENGL 121	Composition I	4 / 4

Minimum Total Credit Hours

18 credits / 18 billing hours

Recommended Course Sequence

Semester I (Fall)
CHDV 100 – Milestone course
CHDV 111 – Milestone course
CHDV 129 (Fall offering only)
Semester II (Spring)
CHDV 101 – Milestone course
CHDV 123 (Spring offering only)
Limited Choice (total 4 credits)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Cisco Certified Network Associate Certification Preparation (CCNA) C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1469

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Cisco Certified Network Associate Certification Preparation (CCNA) curriculum prepares students for the CCNA certification exam. CCNA is the industry standard foundational certification for networking careers. This curriculum provides a highly concentrated training experience in computer networking and is designed for retraining and professional development. Students completing this certificate may use the credits towards the Computer Networking and Cybersecurity Associate of Business Degree (1453).

Milestone

Completion of CITN 220 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITN 220	Introduction to Networks	3 / 3
CITN 225	Switch Route Wireless Essentials	3 / 3
CITN 240	Ent Networking Sec Automation	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
CITN 222	Wireless Networking & Security	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3

Minimum Total Credit Hours

18 credits / 18 billing hours

Recommended Course Sequence

Semester I
CITN 220 (First 8 weeks) – Milestone course
CITN 225 (Second 8 weeks)
CITS 125

Semester II
CITN 240 (First 8 weeks)
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Civil Technology A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 0178

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Civil engineering technicians apply theory and principles of civil engineering in planning, designing, and overseeing the construction and maintenance of structures and facilities in the highway system. They may work at construction or survey sites, offices or in testing labs with engineers, surveyors, supervisors, managers, or skilled trade workers. The successful civil engineering technician must have a working knowledge of college algebra and trigonometry, civil drafting, communications, construction materials, surveying, and must be computer literate. Civil engineering technicians work for construction, engineering, and architecture firms, government agencies, mapping agencies, and private petroleum and mining companies. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CIVL 101 and CIVL 120 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed TECH 102 with a grade of 2.0 or higher, that will satisfy the DCTM 102 requirement.

Students will need to talk to a program advisor before enrolling in the Civil Technology Internship.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Civil Technology Program at the West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CIVL 101	Civil Drafting	3 / 4
CIVL 110	Density Certification	2 / 2
CIVL 120	Surveying	4 / 6
CIVL 124	Route Survey	4 / 6
CIVL 131	Traffic Technology	3 / 3
CIVL 135	Soils Technology	3 / 3
CIVL 141	Site Inspection	3 / 3
CIVL 143	Site Dsgn & Layout/Civil Techn	3 / 4
CIVL 241	Statics/Strength of Materials	4 / 5
CIVL 290	Civil Technology Internship	2 / 2
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 102	Industrial/Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
GSCI 210	Global Positioning Systems	3 / 4
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Precalculus Introduction to Statistics	4 / 4 4 / 4 4 / 4 5 / 5 4 / 4
METS 140	Rigging	3 / 4.5

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, MATH 126, or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education-Applied Degree, Recommended Courses

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.

- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences or Applied Science and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 74.5 billing hours

Recommended Course Sequence

Semester I - Fall
ACAD 100
CIVL 101 – Milestone course
CIVL 120 – Milestone course
DCTM 100
DCTM 102
DCTM 103
Semester II - Spring
CIVL 110
CIVL 124
CIVL 141
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170
Semester III – Fall
CIVL 131
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
GSCI 210
METS 140
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester IV - Spring
CIVL 135
CIVL 143
CIVL 241
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester V - Summer
CIVL 290

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Cloud Computing A.A.S.

Career Community: Computer, Engineering, Manufacturing and Information Technology

Curriculum Code: 1839

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Cloud computing provides remote computing resources that leverage virtualization technologies to create business solutions that are scalable, performant, and cost-effective. Students learn to design, create, maintain, and automate cloud environments with architectures that promote security and efficiency using services from industry leaders. This degree integrates several fields within information technology, including networking, programming, cybersecurity, databases, and artificial intelligence. Students completing this curriculum may also be eligible to apply for the certificate of completion in Cybersecurity Foundations (1833). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITP 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students select one subspecialty from the following options:

- A. Artificial Intelligence/Machine Learning Operations (AIOps/MLOps)
- B. Full-Stack Development (Web) with C#
- C. Full-Stack Development (Web) with Java
- D. Security/System Operations (SecOps/SysOps)

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First Year Experience	1 / 1
CITD 120	SQL Concepts	3 / 3
CITI 100	AI Foundations	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3
CITO 140	Cloud Development Ops with AWS	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Helpdesk Support Specialist Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
CITS 225	Networking for PC Technicians	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Please check with specific institutions to determine whether courses transfer or not. Generally speaking, ENGL 121, ENGL 122, STAT 170, SOCL 120, and BIOL 120 provide more transfer options, but this varies by institution.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes: Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Notes: Students considering future transfer to Central Michigan University choose BIOL 120.

Major Required Courses, Limited Choice - *Select one course, minimum of 3 credits*

Course Code	Course Title	Credit / Billing Hours
CITF 120	Operating Systems Concepts	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6

Major Required Courses by Subspecialty – *Select one concentration (A, B, C, or D) and complete all courses listed for that subspecialty.***A. AI/Machine Learning Operations (AIOps/MLOps) Subspecialty**

Course Code	Course Title	Credit / Billing Hours
CITI 120	Data Analysis with Python	3 / 3
CITI 140	Intro to Machine Learning	3 / 3
CITI 210	Natural Language Processing	3 / 3
CITI 220	Computer Vision	3 / 3
CITO 240	Machine Learning with AWS	3 / 3

B. Full-Stack Development (Web) with C# Subspecialty

Course Code	Course Title	Credit / Billing Hours
CITP 140	Software Testing	3 / 3
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 280	Advanced C#.NET Programming	4 / 4
CITW 160	Web Development HTML & CSS	3 / 3
CITW 165	Web Development JavaScript	3 / 3

C. Full-Stack Development (Web) with Java Subspecialty

Course Code	Course Title	Credit / Billing Hours
CITP 140	Software Testing	3 / 3
CITP 190	Intro to Programming in JAVA	4 / 4
CITP 290	Adv JAVA Programming for Busn	4 / 4
CITW 160	Web Development HTML & CSS	3 / 3
CITW 165	Web Development JavaScript	3 / 3

D. Security/System Operations (SecOps/SysOps) Subspecialty

Course Code	Course Title	Credit / Billing Hours
CITC 282	Ethical Hacking	3 / 3
CITC 285	System Defense	3 / 3
CITC 287	Cybersecurity Incident Respons	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITN 230	Linux Operating System	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Full-Time Course Sequence

Semester I
ACAD 100
CITI 100
CITF 120 or CITS 125
CITP 110 – Milestone course
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215

Semester II
CITD 120
CITO 100
CITS 225
Limited Choice - Select the course for your subspecialty A. CITI 120 B. CITP 140 C. CITP 140 D. CITF 140
Limited Choice - Select the course for your subspecialty

Semester II
A. CITI 140
B. CITW 160
C. CITW 160
D. CITC 287

Semester III
CITN 280
CITO 120
CITO 140
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice - Select the course for your subspecialty
A. CITI 210
B. CIP 180
C. CIP 190
D. CITN 230

Semester IV
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology
Limited Choice - Select the course for your subspecialty
A. CITI 220
B. CIP 280
C. CIP 290
D. CITC 282
Limited Choice - Select the course for your subspecialty
A. CITO 240
B. CITW 165
C. CITW 165
D. CITC 285

Recommended Part-Time Course Sequence

Semester I
ACAD 100
CIP 110 – Milestone course
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Semester II
CITD 120

Semester II
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Semester III
CITF 120 or CITS 125
Semester IV
CITS 225
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Semester V
CITI 100
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Semester VI
CITO 100
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology
Semester VII
CITO 120
Limited Choice - Select the course for your subspecialty A. CITI 120 B. CITP 140 C. CITP 140 D. CITF 140
Semester VIII
CITO 140
Limited Choice - Select the course for your subspecialty A. CITI 140 B. CITW 160 C. CITW 160 D. CITC 287
Semester IX
CITN 280
Limited Choice - Select the course for your subspecialty A. CITI 210 B. CITP 180 C. CITP 190

Semester IX
D. CITN 230

Semester X
Limited Choice - Select the course for your subspecialty A. CITI 220 B. CITP 280 C. CITP 290 D. CITC 282
Limited Choice - Select the course for your subspecialty A. CITO 240 B. CITW 165 C. CITW 165 D. CITC 285

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



CNC Machine Technology C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1798

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed for a person interested in developing or advancing their skill set in the machinist or tool & die trade. Students receive hands-on instruction in manual machining, advanced computer numerical control (CNC) machining/programming, advanced computer aided machining (CAM), basics of geometric dimensioning and tolerancing, blueprint reading, and manufacturing principles. Employment possibilities include entry-level positions in manufacturing companies. Technical math, blueprint reading, and metallurgy are just some of the skills and knowledge that are necessary for this type of work.

Milestone

Completion of METM 112 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

All course work will apply to the Associate in Applied Science Degree in Manufacturing Engineering Technology.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 100	Basic Mechanical Drafting	3 / 4
METD 130	Geometric Dimension/Tolerance	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 150	Advanced CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6

Course Code	Course Title	Credit / Billing Hours
METM 195	Quality/Metrology/Inspection	4 / 6
METM 220	Basic Mastercam	4 / 6
METM 221	Advanced Mastercam	4 / 6
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

37 credits / 55 billing hours

Recommended Course Sequence

Semester I
METD 100
METM 108
METM 190
TECH 102

Semester II
METD 130
METM 112 – Milestone course
METM 220

Semester III
METM 150
METM 195
METM 221

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



CNC Machine Technology C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1797

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed for a person interested in developing their skill set in the machinist or tool and die trade. Students receive hands-on instruction in manual machining, basic computer numerical control (CNC) machining/programming, basic computer aided machining (CAM), basics of geometric dimensioning and tolerancing, blueprint reading, and manufacturing principles. Employment possibilities include entry-level positions in manufacturing companies. Technical math, blueprint reading, and metallurgy are just some of the skills and knowledge that are necessary for this type of work.

Milestone

Completion of METM 108 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 100	Basic Mechanical Drafting	3 / 4
METD 130	Geometric Dimension/Tolerance	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 220	Basic Mastercam	4 / 6
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

21 credits / 31 billing hours

Recommended Course Sequence

Semester I
METD 100
METM 108 – Milestone course
TECH 102

Semester II
METD 130
METM 112
METM 220

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Communication A.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 0136

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year university to pursue a baccalaureate degree in Communication with a variety of concentrations, including a major in Communication Disorders, as a junior. Students may also pursue Secondary Education Certification in Communication/Theater Arts in order to teach in Michigan public schools. Students completing this curriculum will satisfy the Michigan Transfer Agreement (MTA) requirements for General Education between two and four-year institutions in Michigan and will qualify for the Transfer Studies Certificate of Achievement (1482).

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution and may also complete coursework for a Communication, Journalism, and Language, Enhanced AA degree. The Enhanced AA option allows students to transfer additional credits toward the Bachelor's degree.

Milestone

In addition to the required General Education courses in Math and English, completion of COMM 120 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 200	Small Group Communication	3 / 3
COMM 240	Interpersonal Communication	3 / 3
COMM 260 or COMM 270	Nonverbal Communication	3 / 3
	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
DMAC 260 or THEA 110	World Cinema	4 / 4
	Introduction to Theater	3 / 3
ENGL 121 or ENGL 131	Composition I	4 / 4
	Honors Composition I	4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living	4 / 4
	College Algebra	4 / 4
	Introduction to Statistics	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering adding secondary certification in Communication and Theater Arts Secondary Education, choose THEA 110.

- Central Michigan University (BA) choose COMM 260, DMAC 260 or THEA 110, and MATH 120.
- Central Michigan University (BS) choose COMM 260, DMAC 260 or THEA 110, and STAT 170.
- Eastern Michigan University (Secondary Certification in Communication/Theater Arts) choose COMM 260, MATH 120, and THEA 110.

- Grand Valley State University (Communication BA) choose COMM 260, DMAC 260 or THEA 110 and MATH 120; (Communication BS) choose COMM 260, DMAC 260 or THEA 110, and STAT 170.
- Grand Valley State University (Communication Disorders), choose COMM 260 and STAT 170.
- Michigan State University choose COMM 260, DMAC 260, and MATH 119.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select one course from a different discipline than the Humanities and Fine Arts course selected from the Major Required Courses listed above (DMAC or THEA). If a specific course is not indicated in the notes below, choose any recommended course below or choose from [General Education Transfer \(MTA\): Humanities and Fine Arts.](#)*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 160	U.S. History: 1877 to Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
RELG 150	Intro to World Religions	4 / 4

Major Required Courses, Limited Choice – Natural Sciences – *Select two courses, from two different disciplines, as indicated for each transfer institution and major. One must be a lab course. Students considering moving into a Communication Disorders major are strongly encouraged to select the Science courses designated for that major. If specific courses are not indicated, select any two courses from different disciplines from [LCC General Education, MTA, Natural Sciences.](#)*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, Eastern Michigan University, Grand Valley University (Communication Disorders) or Western Michigan University (Speech, Language, and Hearing Disorders) choose BIOL 125 and CHEM 135 or PHYS 120.
- Central Michigan University (Communication) choose BIOL 120 and any non-BIOL course.
- Ferris State University (Communication or Sports Communication) choose BIOL 125 and PFHW 123.
- Grand Valley State University (B.S. in Communication Disorders) choose BIOL 121 and PHYS 120.

Major Required Courses, Limited Choice – Social Sciences - *Select one as indicated for each transfer institution and major. If specific courses are not indicated, select any course or choose from any non-COMM course from [LCC General Education Transfer Degrees: MTA Social Science](#). Students considering the possibility of adding Secondary K-12 Certification at some point in the future are strongly encouraged to select the courses indicated. These selections will satisfy requirements for admission to the Teacher Education program, required for certification, as well as satisfying Social Science General Education requirements and will prevent possible delay in degree completion.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Intro to Education	3 / 3
POLS 201	Introduction to Political Science	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
PSYC 200	Introductory Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Central Michigan University, Eastern Michigan University, Grand Valley State University (Communication Disorders) or Western Michigan University (Speech, Language, or Hearing Disorders) choose PSYC 200.
- Central Michigan University (BS Communication) choose PSYC 200.
- Eastern Michigan University (BA Communication) choose ANTH 270.
- Eastern Michigan University (Secondary Certification in Communication/Theater Arts) choose EDUC 204.
- Grand Valley State University (Communication Disorders) choose PSYC 200.

- Michigan State University (Communication) choose PSYC 200.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses will meet this requirement.
- English Composition (second course) or Communication
Major Required Courses will meet this requirement
- Humanities and Fine Arts
Major Required Courses will meet this requirement
- Mathematics
Major Required Courses will meet this requirement
- Natural Sciences
Major Required Courses will meet this requirement.
- Social Sciences
Major Required Courses will meet this requirement

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for the degree. See the notes below for the courses indicated for each transfer institution and major. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
CHSE 120	Medical Terminology	4 / 4
COMM 110	Communication in the Workplace	3 / 3
COMM 270	Mass Communication	3 / 3
DMAC 120	Intro to Audio Production	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 141	Ethics and Impact of the Media	3 / 3
EDUC 230	Exceptional Learners	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
ENGL 260	African-American Literature	4 / 4
GRMN 121 or JAPN 121 or SPAN 121	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
GRMN 122 or JAPN 122 or SPAN 122	Elementary German II Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4 4 / 4
JAPN 201 or SPAN 201	Intermediate Japanese I Intermediate Spanish I	4 / 4 4 / 4
JAPN 202 or	Intermediate Japanese II	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 202	Intermediate Spanish II	4 / 4
INSU 105	Prin of Managing Evolving Risk	3 / 3
JRNL 151	Newswriting and Reporting	3 / 3
JRNL 254	Opinion Writing	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic and Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHOT 111	Digital Photography I	3 / 3
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
RELG 150	Intro to World Religions	4 / 4
SIGN 160	Intro to the Deaf Community	3 / 3
SIGN 161	American Sign Language I	3 / 3
SIGN 162	American Sign Language II	3 / 3
SIGN 163	American Sign Language III	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	4 / 4
STAT 170	Introduction to Statistics	4 / 4
THEA 181	Improvisation	2.5 / 4
THEA 220	Play Directing	3 / 4

Notes:

Due to limited transferability, DMAC 140, INSU 105, JRNL 254, and MGMT 329 should only be chosen if they are specifically indicated for an institution and program as noted below.

For future transfer to:

- Central Michigan University (BA in Communication) choose ENGL 122 and JAPN or SPAN 121, 122, 201, and 202.
- Central Michigan University (BS in Communication) choose ENGL 122, PSYC 202, PSYC 203, SOCL 120, and SOCL 260.
- Central Michigan University (BAA in Communication Disorders) choose COMM 270 and ENGL 122.
- Eastern Michigan University (BA in Communication) choose ANTH 270 or ENGL 260, ENGL 122, and COMM 270.
- Eastern Michigan University (BS in Communication Disorders with Communication Minor) choose CHSE 120, COMM 270, EDUC 230, and ENGL 122.

- Eastern Michigan University (Secondary Certification in Communication/Theater Arts) choose ANTH 270 or ENGL 260, COMM 270, EDUC 230, and ENGL 122.
- Ferris State University (Communication) choose, COMM 270 ENGL 122, and 2 from DMAC 141 or JRNL 151 or JRNL 254.
- Ferris State University (Sport Communication with Management and Leadership Concentration) choose COMM 270, ENGL 122, INSU 105, MGMT 224, and MGMT 329.
- Grand Valley State University (B.S. in Communication Studies) choose COMM 270, DMAC 141, PHOT 111, and STAT 170.
- Grand Valley State University (B.A. in Communication Studies) choose COMM 270 and 3 from JAPN or SPAN 121, 122, and 201.
- Michigan State University (Communication – variety of concentrations) choose COMM 270.
- University of Michigan Flint (Communication) choose COMM 270, and GRMN or JAPN or SPAN 121 and 122.
- Western Michigan University (Communication) choose COMM 110, COMM 270, ENGL 122, and GRMN or JAPN or SPAN 121 and 122.
- Western Michigan University (Speech, Language, and Hearing Disorders) choose COMM 110, COMM 270, and ENGL 122.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
COMM 120 – Milestone
COMM 130
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences

Semester II (Spring)
COMM 240
COMM 280
MATH 119 or MATH 120 or STAT 170
Limited Choice – Humanities and Fine Arts
Limited Choice – Social Sciences
Electives as needed

Semester III (Fall)
COMM 200
DMAC 260 or THEA 110
COMM 260 (if taking COMM 260 fall only)
Limited Choice – Natural Sciences

Semester IV (Spring)
Electives as needed
COMM 270 (if taking COMM 270 spring only)

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Communication, Journalism, and Language G.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 1823

Effective: Fall 2025 – Summer 2030

Purpose of Major

This degree is designed for students wishing to work in a field related to Communication. Pathways included in this Career Community are Communication, Journalism, Sign Language Interpreter, and World Languages. The degree includes a common set of courses applicable to the Communication and Language majors listed above and to many transfer institutions. Students beginning college in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and transfer institution (if transfer is a goal).

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution and may also complete coursework for a Communication, Journalism, and Language, Enhanced AA degree. The Enhanced AA option allows students to transfer additional credits toward the Bachelor's degree.

Milestone

Completion of the required English and Mathematics courses with a 2.0 or higher is a key component for success in completing this program. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546. or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Communication, Journalism, and Language Career Community Courses – *These courses are required for all Communication, Journalism, and Language programs (Communication, Journalism, Sign Language Interpreter, and World Language). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 or SIGN 160	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II Intro to the Deaf Community	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4 3 / 3
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SIGN 161 or SPAN 121 or THEA 110	World Cinema Introduction to Literature Creative Writing I Elementary Japanese I American Sign Language I Elementary Spanish I Introduction to Theater	4 / 4 3 / 3 3 / 3 4 / 4 3 / 3 4 / 4 3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future major areas:

- Communication choose DMAC 260 plus one of the following: COMM 120, ENGL 122, or ENGL 132.
- Communication (Secondary Education certification) choose THEA 110 plus one of the following: COMM 120, ENGL 122, or ENGL 132.
- Sign Language Interpreter choose SIGN 160 and SIGN 161.

- World Language (including Secondary Education certification) choose JAPN 121 or SPAN 121, plus one of the following: COMM 120, COMM 130, COMM 200, COMM 240, COMM 260, ENGL 122, or ENGL 132.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as indicated for each transfer institution and major or choose one from [LCC General Education: Social Sciences](#). A minimum of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
COMM 270	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
POLS 201	Intro to Political Science	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PYSC 200	Introduction to Psychology	4 / 4
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- For Communication choose COMM 280.
- For Journalism choose COMM 270.
- For Sign Language Interpreter, choose COMM 280 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as indicated for each transfer institution and major or choose one from [LCC General Education: Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Course Code	Course Title	Credit / Billing Hours
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, Eastern Michigan University, Grand Valley University (Communication Disorders) or Western Michigan University (Speech, Language, and Hearing Disorders) choose BIOL 125.
- Central Michigan University (Communication) choose any non-BIOL course.
- Ferris State University (Communication or Sports Communication) choose BIOL 125.
- Grand Valley State University (B.S. in Communication Disorders) choose BIOL 121

Major Required Courses – Limited Choices - *Select 35 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ARTS 151	Color	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 175	Creative Design and Publishing	3 / 4
BIOL 120	Environmental Science	4 / 6
BUSN 118	Introduction to Business	3 / 3
CHEM 135	Chemistry in Society	4 / 5
CHSE 120	Medical Terminology	4 / 4
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 200	Small Group Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 240	Interpersonal Communication	3 / 3
COMM 260	Nonverbal Communication	3 / 3
COMM 270	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 141	Ethics and Impact of the Media	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
EDUC 226	Foundations of Literacy	3 / 3
EDUC 230	Exceptional Learners	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
GRMN 121 or JAPN 121 or SPAN 121	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
GRMN 122 or JAPN 122 or SPAN 122	Elementary German II Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4 4 / 4
JAPN 201 or SPAN 201	Intermediate Japanese I Intermediate Spanish I	4 / 4 4 / 4
JAPN 202 or SPAN 202	Intermediate Japanese II Intermediate Spanish II	4 / 4 4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 160	Mythology	4 / 4
INSU 105	Prin of Managing Evolving Risk	3 / 3
ISCI 131	Integrated Physical Science	4 / 6
JRNL 151	Newswriting and Reporting	3 / 3
JRNL 254	Opinion Writing	3 / 3
MGMT 223	Supervisory Skills	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 329	Advanced Mgmt Communication	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 200	Principles of Marketing	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 152	Introduction to Ethics	4 / 4
PHOT 111	Digital Photography I	3 / 3
PHYS 120	The Art of Physics	4 / 5
POLS 201	Intro to Political Science	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
POLS 270	International Relations	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3
RELG 150	Intro to World Religions	4 / 4
SIGN 160	Intro to the Deaf Community	3 / 3
SIGN 161	American Sign Language I	3 / 3
SIGN 162	American Sign Language II	3 / 3
SIGN 163	American Sign Language III	3 / 3
SIGN 166	Fingerspelling	3 / 3
SIGN 167	Beginning Sign to Voice	3 / 3
SIGN 170	Expressive/Receptive ASL	3 / 3
SIGN 200	Sign Practicum Seminar	2 / 2
SIGN 260	Linguistic Principles of ASL	3 / 3
SIGN 263	Intermediate Sign to Voice	3 / 3
SIGN 266	Post-Secondary Interpreting	2 / 2
SIGN 267	Sign Practicum I	3 / 3
SIGN 268	Sign Practicum II	3 / 3
SIGN 270	Advanced Interpreting	3 / 3
SIGN 271	Advanced Sign to Voice	3 / 3
SIGN 293	Principles of Interpreting	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	3 / 3
STAT 170	Introduction to Statistics	4 / 4
THEA 120	Introduction to Acting	2 / 3
THEA 181	Improvisation	2.5 / 4
THEA 220	Play Directing	3 / 4

For future transfer to:

- Central Michigan University, Eastern Michigan University, Grand Valley University (Communication Disorders) or Western Michigan University (Speech, Language, and Hearing Disorders) choose CHEM 135 or PHYS 120.

- Central Michigan University (Communication) choose BIOL 120.
- Grand Valley State University (B.S. in Communication Disorders) choose PHYS 120.

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Career Community Courses meet this requirement.
COMM 120, COMM 130, COMM 200, COMM 240, COMM 260, ENGL 122, and ENGL 132 meets General Education MTA requirements.
SIGN 160 meets General Education Applied Degree requirements but does not satisfy MTA. SIGN 160 is a required course for the Sign Language Interpreter A.A.A. degree and transfers to Bachelor's degree programs articulated with LCC.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab Course
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I
ACAD 100 (if waived, substitute a Career Community course)
ANTH 270 or ANTH 271 or COMM 280 or EDUC 204 or EDUC 220 or POLS 201 or POLS 240 or POLS 260 or POLS 270 or PSYC 200 or PSYC 205 or PSYC 221 or SOCL 120
ENGL 121 or 131
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 or SIGN 160
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SIGN 161 or SPAN 121 or THEA 110
MATH 119 or 120 or STAT 170
Students who have decided on an academic program within the Communication, Journalism, and Language Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester III
Limited Choice courses for students completing the Communication, Journalism, and Language GA

Semester IV
Limited Choice courses for students completing the Communication, Journalism, and Language GA

College-ready Part-time

Semester I
ACAD 100 (if waived, substitute a Career Community course)
ANTH 270 or ANTH 271 or COMM 280 or EDUC 204 or EDUC 220 or POLS 201 or POLS 240 or POLS 260 or POLS 270 or PSYC 200 or PSYC 205 or PSYC 221 or SOCL 120
ENGL 121

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 or SIGN 160
MATH 119 or 120 or STAT 170

Semester III (Summer – optional)
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SIGN 161 or SPAN 121 or THEA 110
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Students who have decided on an academic program within the Communication, Journalism, and Language Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SIGN 161 or SPAN 121 or THEA 110 (if no Summer enrollment)
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab (if no Summer enrollment)
Students who have decided on an academic program within the Communication, Journalism, and Language Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Limited Choice courses for students completing the Communication, Journalism, and Language GA
Semester V
Limited Choice courses for students completing the Communication, Journalism, and Language GA

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Communication, Journalism, and Language, Enhanced A.A.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 1834

Effective: Fall 2025 – Summer 2030

Purpose of Major

This degree is designed for students wishing to transfer after having completed an Associate of Arts or Associate of Applied Arts degree in the area of Communication, Journalism, and Language (Communication, Journalism, Sign Language Interpreter, and World Language). This Enhanced AAA option allows students to transfer additional credits toward the Bachelor's degree noted below, as designated by transfer articulation agreements. Required coursework follows for the Communication, Journalism, and Language, Enhanced AAA, Sign Language Interpreter track.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Sign Language Interpreter Program, 517-483-5329 or signadvising@star.lcc.edu.

Completion of an Associate of Arts or Applied Associate of Arts Degree

Complete the courses required for the Associate of Applied Arts degree listed below.

Completion of coursework is a requirement for completion of the Enhanced degree. Forty-five credits of the AAA coursework must be completed before declaring the Enhanced major.

CHOOSE ONE TRACK:

Degree	Code
Sign Language Interpreter, AAA	0282

Program of Study Required Courses – Enhanced Degree

Choose one subtrack and complete the courses as listed for that subject area and transfer school.

- [Sign Language Interpreter](#) - transfer to Gallaudet University



Sign Language Interpreter Track, Communication, Journalism, and Language, Enhanced A.A.A.

Career Community: Business

Curriculum Code: 1834

Effective: Fall 2024 – Summer 2029

Purpose of Track

This degree is designed for students wishing to transfer after having completed an Associate of Arts or Associate of Applied Arts degree in the area of Communication, Journalism, and Language (Communication, Journalism, Sign Language Interpreter, and World Language). This Enhanced AAA option allows students to transfer additional credits toward the Bachelor's degree as noted below, as designated by transfer articulation agreements. Required coursework follows for the Communication, Journalism, and Language, Enhanced AAA pathways.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Sign Language Interpreter Program, 517-483-5329 or signadvising@star.lcc.edu.

Completion of an Associate of Applied Arts Degree

Completion of coursework required for the [Sign Language Interpreter AAA](#) (0282) is a requirement for completion of the Enhanced, Sign Language track. Forty-five credits of the Sign Language Interpreter AAA coursework must be completed before declaring the Enhanced major.

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Gallaudet University

General Education – Transfer (MTA) Courses

(For the list of options, see [General Education](#))

- Any MTA Humanities and Fine Arts course, 3 credits / 3 billing hours

Program of Study Required Courses, Limited Choice - Social Science - *Select the course not already completed for the Sign Language degree*

Course Code	Course Title	Credit / Billing Hours
COMM 280	Intercultural Communication	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

MINIMUM TOTAL CREDIT HOURS

78 credits / 78 billing hours



Community Paramedicine C.C.

Career Community: Health Careers

Curriculum Code: 1819

Effective: Fall 2025 – Summer 2027

Purpose of the Major

Community Paramedicine is an emerging profession aimed at improving the quality and access to healthcare services for underserved patients of varying cultural, religious, social, and economic backgrounds. Community Paramedicine utilizes licensed Paramedics in an expanded scope of practice to serve a wide variety of community healthcare needs. Community Paramedics are typically employed through emergency medical service agencies or hospital systems. This two-semester program prepares a licensed Paramedic for an expanded scope of practice and role as a community healthcare provider. Upon successful completion of this program, students will be eligible to take the International Board of Specialty Certification (IBSC) exam.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

Milestone

Completion of CPAR 250, CPAR 251, and CPAR 252 with a 3.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The Community Paramedicine Consortium Program through the Michigan Workforce Training and Education Collaborative of which LCC is a member, has been developed to be consistent with the standards and requirements of the Michigan Department of Health and Human Services, Bureau of EMS, Trauma and Preparedness (MDHHS-BETP).

The Community Paramedicine program is intended for licensed Paramedics interested in serving their communities in an expanded role as a Community Paramedic. To progress through the program and be eligible to receive the Community Paramedicine Certificate of Completion, all courses in this curriculum must be completed with a 3.0 grade or better.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Emergency Medical Services Program, Health and Human Services Building, Room

108, telephone 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CPAR 250	Community Paramedicine I	3 / 0*
CPAR 251	Chronic Care in the Community	5 / 0*
CPAR 252	Community Paramedicine II	3 / 0*
CPAR 270	Community Paramedic Clinical	5 / 0*

Minimum Total Credit Hours

16 credits / 0 billing hours*

*CPAR courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in the billing hours. Please contact the Emergency Medical Services Program Director at 517-483-1410 for current tuition rates.

Required Course Sequence

Semester I
CPAR 250 – Milestone course
CPAR 251 – Milestone course
CPAR 252 – Milestone course

Semester II
CPAR 270

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Aided Design A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1801

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program prepares individuals to apply technical skills and knowledge of computer software installed on a variety of stationary devices and mobile devices to the CAD design process leading through to output of product manufacturing. Automation design brings together engineering. Graphics design systems across the production cycle and links communication to the industry 4.0 concept. Students receive detailed instruction on building virtual representations of products by employing 3D parametric Solid Modeling found in the automotive, aerospace, medical, nuclear, special machinery, and defense industries. Computer Aided Design software is also applied to staging a product through virtual simulation and analysis of computer numerical control, computer programming of robotic systems, metrology quality control actions. Solid models are used in assemblies and drawings to convey material properties, dimensions and tolerances, execution of engineering change orders through tool production, additive manufacturing, and 3D printing.

Milestone

In addition to the required General Education courses in Math and English, completion of METD 110, METD 150, and METD 220 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or	Communication in the Workplace	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 260 or ENGL 122 or ENGL 132	Nonverbal Communication Composition II Honors Composition II	3 / 3 4 / 4 4 / 4
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METD 110	Mechanical CAD Drafting I	4 / 6
METD 111	Mechanical CAD Drafting II	4 / 6
METD 130	Geometric Dimension/ Tolerance	4 / 6
METD 150	Industrial Blueprint Reading	3 / 3
METD 220	Basic Unigraphics/NX	4 / 6
METD 221	Advanced Unigraphics/NX	4 / 6
METD 240	Basic NX Machining	4 / 5
METD 250	Detailing Assembly Drawings	4 / 6
METM 100	Manufacturing Processes	3 / 4.5
METM 108	Machine Tool Operations	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 195	Quality/Metrology/Inspection	4 / 6
METM 220	Basic Mastercam	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

67 credits / 91.5 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
METD 110 – Milestone course
METD 150 – Milestone course
METM 100
METM 108

Semester II
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
METD 111
METD 220 – Milestone course
METM 195
METS 115

Semester III
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
METD 130
METD 221
METD 250
METM 220

Semester IV
METD 240
METM 190
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Aided Design C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1800

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program prepares individuals to apply technical skills and computer software and hardware to the design and manufacturing of machined components relating to various industries. Students receive instruction in the use of engineering graphics, two-dimensional and three-dimensional engineering design graphics, parametric modeling, computer numerical control programming, 3D printing, and additive manufacturing. Industry 4.0 processes are applied inside the CAD system to stage products for metrology inspection, metallurgy, geometric dimensioning and tolerancing, tools for production, and engineering changes. Employment possibilities include entry-level positions in engineering firms, consulting firms, and manufacturing companies that make automotive, defense industry, special machinery, and medical components, to name a few.

Milestone

Completion of METD 110 and METD 150 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 110	Mechanical CAD Drafting I	4 / 6
METD 111	Mechanical CAD Drafting II	4 / 6
METD 130	Geometric Dimension/ Tolerance	4 / 6
METD 150	Industrial Blueprint Reading	3 / 3
METD 220	Basic Unigraphics/NX	4 / 6
METM 100	Manufacturing Processes	3 / 4.5
METM 108	Machine Tool Operations	4 / 6

Course Code	Course Title	Credit / Billing Hours
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 195	Quality/Metrology/ Inspection	4 / 6
METM 220	Basic Mastercam	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

42 credits / 61.5 billing hours

Recommended Course Sequence

Semester I
METD 110 – Milestone course
METD 150 – Milestone course
METM 100
METM 108

Semester II
METD 111
METD 220
METM 195
METS 115

Semester III
METD 130
METM 190
METM 220

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Aided Design C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1799

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate provides an introduction to manufacturing principles and prepares individuals to pursue entry-level employment and advanced training in automation design. Students receive instruction in the use of two-dimensional engineering design graphics, computer numerical control programming, manufacturing processes, tools for production, and engineering changes. Employment possibilities include entry-level positions in engineering firms, consulting firms, and manufacturing companies that make automotive, defense, special machinery, and medical components, to name a few.

Milestone

Completion of METD 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 110	Mechanical CAD Drafting I	4 / 6
METD 111	Mechanical CAD Drafting II	4 / 6
METD 150	Industrial Blueprint Reading	3 / 3
METM 100	Manufacturing Processes	3 / 4.5
METM 108	Machine Tool Operations	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6

Minimum Total Credit Hours

22 credits / 31.5 billing hours

Recommended Course Sequence

Semester I
METD 110 – Milestone course
METD 150
METM 100
METM 108
Semester II
METD 111
METS 115

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Networking Technology A.B.

Career Community: Computer Technology and Networking

Curriculum Code: 1453

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Networking technology binds computers and connects people with information, and information security seeks to protect this information. Students learn to design, create, and administer efficient information technology networks of data, voice, image, and video communications. Students learn to provide the technical management and support to keep systems running 24/7, and to safeguard the data they control. This degree focuses on technical competencies, as well as communication with users, management, and project planning skills. Students will be prepared to earn several industry-respected certifications. Students completing this curriculum may also be eligible to apply for certificates of completion in Cisco Certified Network Associate Certification Preparation (CCNA) (1469) and in Information Technology Foundations (0766). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITS 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BUSN 118	Introduction to Business	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITN 220	Introduction to Networks	3 / 3
CITN 225	Switch Route Wireless Essentials	3 / 3
CITN 230	Linux Operating System	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITN 240	Ent Networking Sec Automation	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Helpdesk Support Specialist Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
CITS 125	Computer Support: A+ Cert Prep	6 / 6
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: Students considering future transfer to Central Michigan University choose BIOL 120.

Major Required Courses, Limited Choice – Select three or four courses, 9 credits minimum.

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orient.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
CITD 250	Database Concepts	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITF 240	IT Project Management	3 / 3
CITI 100	AI Foundations	3 / 3
CITI 120	Data Analysis with Python	3 / 3
CITN 222	Wireless Networking & Security	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITN 250	Microsoft Network Server	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3
CITS 285	IT Professional Internship	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITF 110
CITP 110
CITS 125 – Milestone course
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Semester II
CITF 140
CITN 220 (First 8 weeks)
CITN 225 (Second 8 weeks)

Semester II
CITN 230
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131

Semester III
CITN 240
CITN 280
Limited Choice- Natural Sciences Lab or Applied Science and Technology
Limited Choice

Semester IV
BUSN 118
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Programmer/Analyst A.B.

Career Community: Computer Technology and Networking

Curriculum Code: 0113

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Programmer/analysts plan, develop, test, and document computer programs at the request of a specific user, applying knowledge of programming, project management, testing, and quality assurance techniques and computer systems. They may evaluate user requests to determine feasibility, cost, and time required, as well as compatibility with current system and computer capabilities. In addition, they read manuals, periodicals, and technical reports to develop programs that meet user requirements and to remain current with developments and standards in the information technology industry. They formulate a plan outlining steps required to develop programs and convert project specifications into program source instructions which are entered into the computer system and tested. They may write documentation and the user manual. Students completing this curriculum may also be eligible for the Computer Programmer/Analyst Certificate of Completion (0969), Computer Software Tester Certificate of Achievement (1633), and Mobile Application Developer Certificate of Achievement (1712). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITP 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BUSN 118	Introduction to Business	3 / 3
CITD 120	SQL Concepts	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITF 260	Systems Analysis and Design	4 / 4
CITP 110	Intro to Programming-Python	4 / 4
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 140	Software Testing	3 / 3
CITP 190	Intro to Programming in JAVA	4 / 4
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Development HTML & CSS	3 / 3
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Helpdesk Support Specialist Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice - Introductory Programming - Select one

Course Code	Course Title	Credit / Billing Hours
CITP 150	Intro to VB.NET Programming	4 / 4
CITP 180	Intro to C#.NET Programming	4 / 4

Major Required Courses, Limited Choice - Computer - Select two courses

Course Code	Course Title	Credit / Billing Hours
CITD 250	Database Concepts	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITN 120	Networking Concepts	3 / 3
CITP 295	Programming Internship	3 / 3
CITW 165	Web Development JavaScript	3 / 3
CITW 180	Web Development ASP.NET	4 / 4
CITW 185	Web Development PHP & MySQL	4 / 4

Major Required Courses, Limited Choice - Advanced Programming - Select one

Course Code	Course Title	Credit / Billing Hours
CITP 230	Mobile App Devel for Android	4 / 4
CITP 235	Mobile App Devel for Apple	4 / 4
CITP 280	Advanced C#.NET Programming	4 / 4
CITP 290	Adv JAVA Programming for Busn	4 / 4

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Science or Applied Social Science - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Science or Applied Social Science. A minimum grade of 2.0 is required for each General Education course.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Science or Applied Science and Technology Lab - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Science or Applied Science and Technology Lab. A minimum grade of 2.0 is required for each General Education course.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: Students considering future transfer to Central Michigan University choose BIOL 120.

General Education - Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 65 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITF 110
CITP 110 – Milestone course
CITP 130

Semester I
CITW 150
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215

Semester II
BUSN 118
CITD 120
CITW 160
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice - Introductory Programming

Semester III
CITP 140
CITP 190
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Computer

Semester IV
CITF 260
Limited Choice - Advanced Programming
Limited Choice - Computer
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Science and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Programmer/Analyst C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 0969

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Computer Programmer/Analyst certificate is a start for students new to the Information Technology field. The classes offered in this certificate represent the building blocks for other degrees and certificate programs. Students will learn computer skills and concepts that will help them decide their future path based on their interests. This is a stackable certificate with Computer Programmer Analyst AB (0113).

Milestone

Completion of CIP 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
CITD 120	SQL Concepts	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITW 150	Internet Literacy	3 / 3

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
CITP 150	Intro to VB.NET Programming	4 / 4
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4

Minimum Total Credit Hours

20 credits / 20 billing hours

Recommended Course Sequence

Semester I
BUSN 118
CITF 110
CITP 110 – Milestone course

Semester II
CITD 120
CITW 150
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Science A.S.

Career Community: Science and Mathematics

Curriculum Code: 0169

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year university to pursue a Bachelor's of Science degree in Computer Science with a variety of concentrations. Students completing this degree will also satisfy Michigan Transfer Agreement (MTA) requirements for General Education and may qualify for an LCC Transfer Studies Certificate of Achievement. This degree includes a set of courses common to all Science and Math majors and all transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of CPSC 230 and MATH 151 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

CPSC 260 and MATH 260 are only offered during Spring semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127 or	Cell Biology	4 / 6

Course Code	Course Title	Credit / Billing Hours
PHYS 251	Physics I with Calculus	5 / 7
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Non-Verbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
CPSC 101	Intro to Computer Science	3 / 3
CPCS 230	Algorithms and Computing with C++	4 / 4
CPSC 231	Computing and Data Structures	4 / 4
CPSC 260	Computer Science Structures	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

CPSC 260 is only offered in Spring semester.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines, from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Note: PHIL 151 is highly recommended for one of the courses.

Major Required Courses, Limited Choice – Social Sciences - *Select two from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#), from different disciplines.*

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the minimum 60 credits required for the degree. For information on preferred courses for specific concentrations identified by transfer institutions, consult with a Program Advisor. (For the full list of options, see [AA and AS Degree Electives](#))*

Course Code	Course Title	Credit / Billing Hours
MATH 254	Intro to Differential Equation	4 / 4
MATH 260	Linear Algebra	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Note: Math 260 is highly recommended for transfer students.

Minimum Total Credit Hours

60 credits / 64 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
CHEM 151
CHEM 161
ENGL 121 or ENGL 131
MATH 151 – Milestone course

Semester II (Spring)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
CPCS 101
MATH 152
Limited Choice – Social Sciences

Semester III (Suggested for Summer)
BIOL 127 or PHYS 251
Limited Choices – Humanities and Fine Arts

Semester IV (Fall)
CPSC 230 – Milestone course
MATH 253
Limited Choice – Social Sciences

Semester V (Spring)
CPSC 231
CPSC 260
Limited Choices – Humanities and Fine Arts
Electives as needed (MATH 260 is highly recommended)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Software Tester C.A.

Career Community: Computer Technology and Networking

Curriculum Code: 1633

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Software Testing, or Software Quality Assurance, is one of many essential jobs in the computing industry. Companies need people to create software programs or applications as well as professionals to discover defects in these applications. Software testers must be knowledgeable about computers and their usage to meet the goals of the organization. They are familiar with programming and how software is put together. Knowledge of testing principles, such as test planning, test case design and implementation, test documentation, and the use of automated testing software are necessary. Soft skills are also essential to work effectively as a member of an organizational team. Students completing this certificate may use the credits towards the Computer Programmer/Analyst Associate of Business degree (0113).

Milestone

Completion of CITP 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
CITF 240	IT Project Management	3 / 3
CITF 260	Systems Analysis and Design	4 / 4
CITP 110	Intro to Programming-Python	4 / 4
CITP 140	Software Testing	3 / 3
CITP 240	Advanced Software Testing	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITW 150	Internet Literacy	3 / 3
COMM 110	Communication in the Workplace	3 / 3

Major Required Courses, Limited Choice - Writing – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3

Major Required Courses, Limited Choice - Programming – *Select one*

Course Code	Course Title	Credit / Billing Hours
CITP 150	Intro to VB.NET Programming	4 / 4
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 33 billing hours

Recommended Course Sequence

Semester I
CITF 110
CITP 110
CITP 140 – Milestone course
COMM 110
Limited Choice - Writing

Semester II
CITF 240
CITF 260
CITP 240
CITW 150
Limited Choice - Programming

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Support Specialist A.B.

Career Community: Computer Technology and Networking

Curriculum Code: 0713

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Computer support specialists install, modify and make minor repairs to computer hardware and software systems and provide technical assistance and training to system users. They install or assist service personnel in installation of hardware and peripheral components, such as monitors, keyboards, printers, and disk drives on user's premises, following design or installation specifications. They may also load software packages into the computer; instruct users in use of equipment, software, and manuals; answer clients' inquiries concerning the systems operation; and diagnose system hardware, software, and operator problems. Students completing this curriculum may also be eligible to apply for certificates of completion in Microsoft Office Specialist (0841) and Computer Technology Basics (0844).

Milestone

In addition to the required General Education courses in Math and English, completion of CITS 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BUSN 118	Introduction to Business	3 / 3
CITA 115	Microsoft PowerPoint	3 / 3
CITA 119	Microsoft Word	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 140	Information Technology Ethics	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITN 120	Networking Concepts	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110	Helpdesk Support Specialist	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 285	IT Professional Internship	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – *Select two*

Course Code	Course Title	Credit / Billing Hours
CITA 140	Microsoft Outlook	3 / 3
CITA 219	Advanced Microsoft Word	3 / 3
CITA 226	Microsoft Excel–Advanced	3 / 3
CITD 250	Database Concepts	3 / 3
CITF 260	Systems Analysis and Design	4 / 4
CITI 100	AI Foundations	3 / 3
CITS 225	Networking for PC Technicians	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Development HTML & CSS	3 / 3

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: Students considering future transfer to Central Michigan University choose BIOL 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Major Required Course will meet this requirement

- Mathematics or Applied Mathematics

Major Required Courses will meet this requirement

- Natural Sciences Lab or Applied Sciences and Technology Lab

Major Required Courses will meet this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITA 115
CITA 126
CITF 110
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Limited Choice– Natural Sciences Lab or Applied Sciences and Technology Lab

Semester II
CITA 119
CITA 133
CITN 120
CITP 110
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131

Semester III
CITF 140
CITS 110
CITS 125 – Milestone course
Limited Choice– Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester IV
BUSN 118
CITS 285
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Support Technician A.A.S.

Career Community: Computer Technology and Networking

Curriculum Code: 0743

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A computer support technician is highly knowledgeable in both computer hardware and software. This person must not only understand the operation of the computer system, but must also diagnose and repair the system when it fails, make upgrades, and perform preventive maintenance. A computer support technician also answers customers' questions relating to correct use of computers or components and may install new equipment. A successful computer support technician must understand electronics, computer hardware and software, and how they work together to make the computer operate. Computer support technicians are employed in computer sales and service shops and any place a large number of computers are found. Students completing this curriculum may also be eligible to apply for the Computer Technician Certificate of Achievement (0168). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITS 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITF 240	IT Project Management	3 / 3
CITI 100	AI Foundations	3 / 3
CITN 230	Linux Operating System	3 / 3
CITN 280	IT Security Foundations	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITO 100	Cloud Foundations with AWS	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110	Helpdesk Support Specialist	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 172	Intro to Basic Electronics	4 / 4.5
CITS 225	Networking for PC Technicians	3 / 3
CITS 285	IT Professional Internship	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – *Select three*

Course Code	Course Title	Credit / Billing Hours
CITC 282	Ethical Hacking	3 / 3
CITI 120	Data Analysis with Python	3 / 3
CITN 222	Wireless Networking & Security	3 / 3
CITN 250	Microsoft Network Server	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITC 282	Ethical Hacking	3 / 3
CITI 120	Data Analysis with Python	3 / 3
CITO 140	Cloud Development Ops with AWS	3 / 3

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees: Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: -Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note:-Students considering future transfer to Central Michigan University choose BIOL 120.

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will fulfill this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will fulfill this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will fulfill this requirement
- Mathematics or Applied Mathematics
Major Required Courses will fulfill this requirement
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will fulfill this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 62.5 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
CITO 100
CITS 110
CITS 125 – Milestone course
CITS 172

Semester II (Spring)
CITP 110
CITS 225
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice

Semester III (Fall)
CITI 100
CITN 230
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Limited Choice- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice

Semester IV (Spring)
CITF 240
CITN 280
CITS 285
Limited Choice– Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Technician C.A.

Career Community: Computer Technology and Networking

Curriculum Code: 0168

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate provides technical knowledge and skills to repair and service computers, test computers and computer components, and diagnose causes of malfunctions. Individuals are prepared for entry-level positions. Students completing this certificate may apply the credits toward the Computer Support Technician, Associate in Applied Science degree (0743).

Milestone

Completion of CITS 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITN 230	Linux Operating System	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110	Helpdesk Support Specialist	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 172	Intro to Basic Electronics	4 / 4.5
CITS 225	Networking for PC Technicians	3 / 3

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
ENGL 124	Technical Writing	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 32.5 billing hours

Recommended Course Sequence

Semester I
CITS 110
CITS 125 – Milestone course
CITS 172
Limited Choice

Semester II
CITN 230
CITN 280
CITO 100
CITP 110
CITS 225

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Technology and Networking G.A.

Career Community: Computer Technology and Networking

Curriculum Code: 1857

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Computer Technology and Networking General Associates Degree at Lansing Community College introduces students to the expansive world of careers in computer technology, focusing on key areas such as Cloud Computing, Computer Networking Technology, Computer Programmer/Analyst, Computer Support Specialist, Computer Support Technician, Cybersecurity, E-business, and Geospatial Science Technician. Emphasizing practical applications and industry-relevant training, this degree program equips students with the skills needed to thrive in careers demanding skills in the areas of computer networking, computer technology, cybersecurity, and geospatial science.

Milestone

In addition to the required General Education courses in Math and English, completion of CITP 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The majority of instruction is hands-on laboratory time, and most lab and lectures feature small class sizes to provide generous personal interaction with your instructors. All instructors bring their extensive years of experience working within their respective industry to the classroom, including all related certifications.

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Computer Information Technologies Department, West Campus, telephone number 517-267-6406, or Student Services, West Campus, telephone number 517-483-5509.

Computer Technology and Networking Career Community Courses

These courses are required for all Computer Networking and Technology programs (Cloud Computing, Computer Networking Technology, Computer Programmer/Analyst, Computer Support Specialist, Computer Support Technician, Cybersecurity, E-business, and Geospatial Science Technician). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITP 110	Intro to Programming-Python	4 / 4
CITS 110	Helpdesk Support Specialist	3 / 3
COMM 110 or	Communication in the Workplace	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
ENGL 121 or	Composition I	4 / 4
ENGL 124 or	Technical Writing	3 / 3
ENGL 127 or	Business Writing	3 / 3
ENGL 131	Honors Composition I	4 / 4
MATH 120 or	College Algebra	4 / 4
MATH 126 or	Precalculus	5 / 5
MATH 141 or	Calculus with Applications	4 / 4
STAT 170 or	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Students considering Computer Support Specialist or Computer Support Technician, select CITS 110.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended below or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- Students considering Geospatial Science choose GEOG 200.
- Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.
- Students considering transfer to Eastern Michigan University in Cybersecurity, choose ANTH 270 or POLS 201.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended below or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Notes:

- Students considering Geospatial Science choose GEOL 230.
- Students considering future transfer to Central Michigan University choose BIOL 120.
- Students considering future transfer to Eastern Michigan University in Cybersecurity choose ISCI 131.

Major Required Courses, Limited Choice

Select 34 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orien.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
AVAU 200	Advanced Drone Flight-Capstone	2 / 3
BUSN 118	Introduction to Business	3 / 3
CITA 115	Microsoft PowerPoint	3 / 3
CITA 119	Microsoft Word	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
CITA 140	Microsoft Outlook	3 / 3
CITA 219	Advanced Microsoft Word	3 / 3
CITA 226	Microsoft Excel - Advanced	3 / 3
CITC 282	Ethical Hacking	3 / 3
CITC 285	System Defense	3 / 3
CITC 287	Cybersecurity Incident Respons	3 / 3
CITC 290	Cybersecurity Risk Management	4 / 4
CITD 120	SQL Concepts	3 / 3
CITD 250	Database Concepts	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITF 240	IT Project Management	3 / 3
CITF 260	Systems Analysis and Design	4 / 4
CITI 100	AI Foundations	3 / 3
CITI 120	Data Analysis with Python	3 / 3
CITI 140	Intro to Machine Learning	3 / 3
CITI 210	Natural Language Processing	3 / 3
CITI 220	Computer Vision	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITN 220	Introduction to Networks	3 / 3
CITN 222	Wireless Networking & Security	3 / 3
CITN 225	Switch Route Wireless Essentials	3 / 3
CITN 230	Linux Operating Systems	3 / 3
CITN 240	Ent Networking Sec Automation	3 / 3
CITN 250	Microsoft Network Server	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3
CITO 140	Cloud Development Ops with AWS	3 / 3
CITO 240	Machine Learning with AWS	3 / 3
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 140	Software Testing	3 / 3
CITP 180	Intro to C#. NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4
CITP 280	Advanced C#. NET Programming	4 / 4
CITP 290	Adv JAVA Programming for Busn	4 / 4
CITP 295	Programming Internship	3 / 3
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 172	Intro to Basic Electronics	4 / 4.5
CITS 225	Networking for PC Technicians	3 / 3
CITS 285	IT Professional Internship	3 / 3
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Developmental HTML & CSS	3 / 3
CITW 165	Web Development JavaScript	3 / 3
CITW 180	Web Development ASP.NET	4 / 4
CITW 185	Web Development PHP & MySQL	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 150	Drone Flight for Industry	3 / 4
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	Drone Map Analysis	3 / 4
GSCI 260	Automating Workflows in GIS	3 / 4
GSCI 264	Web GIS	3 / 4
GSCI 271	Parcel Mapping	3 / 5
GSCI 275	GIS Proj Mgmt & Implementation	3 / 4

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course)/Communication
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Full-time

Semester I
ACAD 100
CITP 110 – Milestone
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice course for students completing the Computer Technology and Networking GA
Semester II
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Limited Choice course(s) for students completing the Computer Technology and Networking GA

Semester III
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab
Limited Choice course(s) for students completing the Computer Technology and Networking GA
Students who have decided on an academic program within the Computer Technology and Networking Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Computer Technology and Networking GA
Students who have decided on an academic program within the Computer Technology and Networking Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Part-time

Semester I
ACAD 100
CITP 110 - Milestone
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester II
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Limited Choice course(s) for students completing the Computer Technology and Networking GA

Semester III
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab
Limited Choice course(s) for students completing the Computer Technology and Networking GA
Students who have decided on an academic program within the Computer Technology and Networking Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Computer Technology and Networking GA

Semester IV
Students who have decided on an academic program within the Computer Technology and Networking Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Semester V
Limited Choice course(s) for students completing the Computer Technology and Networking GA
Students who have decided on an academic program within the Computer Networking and Technology Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Computer Technology Basics C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 0844

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate provides the basic classes for many Computer Information Technology Associate in Business degrees. Students will learn introductory concepts of computer usage in business. This certificate can be completed entirely online. Students completing this certificate may use the credits towards the Computer Support Specialist Associate of Business Degree (0713).

Milestone

Completion of CITF 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITI 100	AI Foundations	3 / 3
CITN 120	Networking Concepts	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110	Helpdesk Support Specialist	3 / 3

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3

Minimum Total Credit Hours

22 credits / 22 billing hours

Recommended Course Sequence

Semester I
CITF 110 – Milestone course
CITP 110
CITS 110
Limited Choice

Semester II
CITF 140
CITI 100
CITN 120

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Conservation and Sustainability A.S.

Career Community: Science and Mathematics

Curriculum Code: 1840

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in a Natural Resources related program. The courses outlined in this pathway are designed for students interested in pursuing degrees related to Conservation, Environmental Science, Fisheries and Wildlife Management, Natural Resources Management and/or Sustainability, as their main emphasis of study. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions and qualify for an LCC Transfer Studies Certificate of Achievement (1482)

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of GEOG 120 or GEOG 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

BIOL 210 is only offered during Fall semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
GEOG 120 or GEOG 200	Introduction to Geography World Regional Geography	3 / 3 4 / 4
GEOG 206 or GEOG 220 or GEOL 221	Physical Geography Weather, Forecasting & Climate Physical Geology	4 / 4 4 / 4 4 / 6
MATH 120 or MATH 126 or MATH 151	College Algebra Precalculus Calculus I	4 / 4 5 / 5 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Major Required Courses, Limited Choice – Social Sciences – *Select one course from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#), from a discipline other than GEOG.*

Notes:

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

Major Required Courses, Limited Choice – *Select 13 credits*

Course Code	Course Title	Credit / Billing Hours
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
BIOL 270	Human Genetics	3 / 3
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 240	Interpersonal Communication	3 / 3
ECON 202	Principles of Economics-Macro	4 / 4
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
GSCI 100	Intro to Geospatial Tech	3 / 3
MATH 141	Calculus with Applications	4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7
STAT 215	Intro to Probability and Stats	4 / 4

Note: BIOL 210 is highly recommended for this degree (offered Fall semester only).

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credits / 66 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
MATH 120 or MATH 126 or MATH 151
Limited Choice
Semester II
CHEM 151
CHEM 161
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice, Humanities and Fine Arts

Semester III
BIOL 127
GEOG 120 or GEOG 200 – Milestone course
Limited Choice, Humanities and Fine Arts
Limited Choice
Semester IV
BIOL 128
GEOG 206 or GEOG 220 or GEOL 221
Limited Choice, Social Sciences
Limited Choice
Electives as needed for the total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Conservation and Sustainability C.A.

Career Community: Science and Mathematics

Curriculum Code: 1844

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate curriculum promotes entry-level technical knowledge, ethics, and rationale for a world view of sustainable practices in agriculture, alternative energy, business, construction, energy usage, natural resource management, and public policy. This certificate is for individuals seeking to enhance their employability by supplementing their existing credentials. Examples include those studying building trades or construction management seeking to implement sustainable building practices or students who hope to work in governmental and non-governmental agencies who intend to apply or advocate for sustainability.

Milestone

Completion of CHEM 151 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ARCH 113 or ARCH 275	Materials & Methods of Constr. Sustainable Building Design	4 / 6 4 / 6
BIOL 120 or BIOL 210	Environmental Science Natural Resource Conservation	4 / 6 4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
GEOG 120 or	Introduction to Geography	3 / 3

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
GEOL 230	Environmental Geology	4 / 6
MATH 120	College Algebra	4 / 4

Note: BIOL 210 offered Fall semester only.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

36 credits / 48 billing hours

Recommended Course Sequence

Semester I
BIOL 127
BIOL 210 (If choosing BIOL 210)
GEOG 120 or GEOG 200
MATH 120
Semester II
BIOL 120 (if choosing BIOL 120)
CHEM 151 – Milestone course
CHEM 161
ENGL 121 or ENGL 131
Semester III
ARCH 113 or ARCH 275
BIOL 128
GEOL 230

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Construction Management A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 1634

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Construction Management Degree is designed to prepare students to work in entry-level supervisory and management positions related to construction, including site supervisors, construction and project superintendents, field supervisors, project engineers, and estimating/scheduling assistants. Construction management professionals plan, direct, or coordinate activities related to the construction and maintenance of buildings and infrastructure. They participate as members of an integrated project team in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. This curriculum incorporates elements of the Associate Constructor Level I examination body of knowledge as established by the American Institute of Construction. The curriculum provides graduates with a broad foundation of technical and management abilities with an emphasis on job entry skill development, estimating, scheduling, project management, and specialized technical skills. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of DCTM 100 and DCTM 103 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed TECH 102 with a grade of 2.0 or higher, that will satisfy the DCTM 102 requirement. TECH 102 will also fulfill the prerequisite for ARCH 113, ELTE 110, and the BLDT courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Construction Management Program, West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 101	Accounting Info for Management	3 / 3
ARCH 113	Materials & Methods of Constr.	4 / 6
BLDT 130	Building Exterior Construction	4 / 6
BLDT 150	Intro Masonry/Concrete Const	4 / 6
BLDT 160	Steel Framing	4 / 6
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
DCTM 102	Industrial/Construction Safety	2 / 3
DCTM 103	Codes and Specifications	3 / 3
DCTM 200	Construction Management I	4 / 6
DCTM 201	Construction Management II	4 / 6
DCTM 210	MEP Equipment for Buildings	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
LEGL 215	Business Law-Basic Principles	3 / 3
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Precalculus Introduction to Statistics	4 / 4 4 / 4 4 / 4 5 / 5 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, MATH 126, or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
BLDT 140	Building Interior Construction	4 / 6
CIVL 120	Surveying	4 / 6
DCTM 220	BIM for Construction	4 / 6
ELTE 110	Practical Electricity	4 / 6
HVAC 100	Fundamentals of HVAC	3 / 3

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.

- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 80 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
ARCH 113
DCTM 100 – Milestone course
DCTM 102
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170
Semester II (Spring)
ACCG 101
BLDT 130
DCTM 103 – Milestone course
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Semester III (Summer)
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester IV (Fall)
DCTM 101
DCTM 200
DCTM 210

Semester IV (Fall)
LEGL 215
Limited Choice (Fall courses) as needed

Semester V (Spring)
BLDT 150
BLDT 160
DCTM 201
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice (Spring courses) as needed

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Control Panel Wiring C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1471

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide students with entry level skills in reading relay ladder logic diagrams and in the layout, mounting and terminating of equipment in control panels used in industry. The program builds a basic foundation in electrical theory, the operating characteristics of electrical controls and the connection and troubleshooting of electric motors. This curriculum would be an excellent choice for students wishing to enter the job market in the panel shop of a system or controls design firm or prepare for an industrial electrical apprenticeship. Most of the course work may be applied toward a Certificate of Achievement and/or an Associate in Applied Science Degree in Electrical Technology.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 150	Electric Motor Maintenance	2 / 3
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

18 credits / 26 billing hours

Recommended Course Sequence

Semester I
ELTE 110 – Milestone course
ELTE 111
TECH 102

Semester II
ELTE 131
ELTE 132
ELTE 150

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Correctional Officer C.C.

Career Community: Public Service Careers

Curriculum Code: 0840

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate option is designed to provide entry level skills for the person who wishes to enter the job market as a State Correctional Officer at a correctional facility. This curriculum meets the State of Michigan Corrections Officer Vocational Certificate requirements. Students completing this certificate may use the credits towards the Criminal Justice, Corrections Associate in Applied Science Degree (1209).

Milestone

Completion of CJUS 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CJUS 131	Introduction to Corrections	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3
CJUS 250	Correctional Institutions	3 / 3
CJUS 251	Correctional Clients	3 / 3
CJUS 255	Human Relations/Crim Justice	3 / 3

Minimum Total Credit Hours

15 credits / 15 billing hours

Required Course Sequence

Semester I
CJUS 131 – Milestone course
CJUS 135
CJUS 250
Semester II
CJUS 251
CJUS 255

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Creative Writing A.A.

Career Community: History, Humanities, and English

Curriculum Code: 1623

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a Bachelor of Arts degree in Creative Writing, a Bachelor of Fine Arts degree in Creative Writing, or an English Degree with a concentration in Creative Writing. Students completing this degree will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan. This degree includes a set of courses common to History, Humanities, and English majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of ENGL 200 and ENGL 261 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the English Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061.

Major Required Courses - Some courses meet General Education requirements for MTA.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1

Course Code	Course Title	Credit / Billing Hours
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals of Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 261	Creative Writing I	3 / 3
ENGL 278	Writing the Novel	3 / 3
ENGL 279	Prose Style	3 / 3
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

For future transfer to:

- Central Michigan University (BA) choose ENGL 122.
- Central Michigan University (BS) choose ENGL 122 and STAT 170.
- Eastern Michigan University (Creative Writing concentration or Creative Writing minor or Professional Writing concentration) choose ENGL 122.
- Ferris State University (Technical or Professional Communications or Creative Writing minor) choose ENGL 122 and, MATH 119 or MATH 120.
- Grand Valley State University (Writing BA) choose COMM 120 or 130, and MATH 120.
- Grand Valley State University (Writing BS) choose COMM 120 or 130, and STAT 170.
- Michigan State University (Creative Writing or Professional Writing) choose COMM 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 and STAT 170.
- University of Michigan Flint (English BA with Creative Writing/Workplace Writing) choose ENGL 122 and, MATH 119 or 120.

- Western Michigan University (Creative Writing) choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses, Limited Choice - *Select one.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History from 1500	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	4 / 4

Major Required Courses, Limited Choice – Natural Sciences - *Select two from different disciplines, including one lab course, as indicated for each major and transfer institution. If specific courses are not recommended for your institution and major, choose any two recommended courses from different disciplines or choose from [LCC General Education Transfer Degrees: Natural Sciences.](#)*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting, and Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120 and a non-Biology course.
- Ferris State University choose BIOL 125 and a non-Biology course.
- Michigan State University choose BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice – Social Science - *Select two from different disciplines, as indicated for each major and transfer institution. If specific courses are not recommended for your institution and major, choose any two recommended courses from different disciplines or choose from [LCC General Education Transfer Degrees: Social Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
COMM 270	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 120	Power, Authority, and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Notes:

Students not planning to transfer and interested in freelance writing/publishing choose COMM 270 and a non-COMM course.

For future transfer to:

- Central Michigan University (Language and Literature BS with Creative Writing Concentration, Minor, or Undergraduate certificate) choose PSYC 200 and SOCL 120.
- Ferris State University (Technical and Professional Communications or Creative Writing minor) choose COMM 270 and a non-COMM course.
- Grand Valley State University (Writing BS) choose COMM 270 and, ECON 201 or ECON 202 or GEOG 200 or POLS 120 or PSYC 200 or SOCL 120.
- University of Michigan Ann Arbor choose from ANTH 270 or COMM 270 and, ECON 201 or ECON 202 or GEOG 200 or POLS 120 or PSYC 200 or SOCL 120.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.

- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses to reach the minimum 60 total credits required for this degree. (For the full list of options see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
ARTS 131	Drawing I	3 / 5.25
ARTS 164	Digital Illustration	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
BUSN 118	Introduction to Business	3 / 3
CITP 110	Intro to Programming - Python	4 / 4
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 270	Mass Communication	3 / 3
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3
ENGL 208	Children's Literature	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 240	The Film as Art	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 290	Shakespeare	4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4
MKTG 200	Principles of Marketing	3 / 3
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

Notes:

Students not planning to transfer and interested in freelance writing/publishing choose a combination of courses from Business (ACCG, BUSN, MKTG), Art and Design (ARTS), and English (ENGL).

For future transfer to:

- Central Michigan University (BA with Creative Concentration, Minor, or Undergraduate Certificate) choose ENGL 260 or 270, and 4 from JAPN or SPAN 121, 122, 201, and 202.
- Central Michigan University (BS with Creative Concentration, Minor, or Undergraduate Certificate) choose 1 from ENGL 208 or ENGL 220 or ENGL 260 or ENGL 270 or ENGL 290, and choose PSYC 202, PSYC 203, and SOCL 260.
- Eastern Michigan University (Creative Writing concentration or Creative Writing minor or Professional Writing concentration) choose ENGL 208, 220, 260 and 290.
- Ferris State University (Technical and Professional Communications or Creative Writing minor) choose COMM 130, and 4 from ENGL 208, 220, 255, 256, 260, 266, 267, 270 or 290.
- Grand Valley State University (Writing BA) choose ARTS 102, ARTS 171, ARTS 173, ENGL 124, and JAPN or SPAN 121, JAPN or SPAN 122, and JAPN or SPAN 201.
- Grand Valley State University (Writing BS) choose ARTS 102, ARTS 171, ARTS 173, CIP 110, ENGL 124, and ENGL 127.
- Michigan State University (Creative Writing or Professional Writing) choose ENGL 124 and JAPN or SPAN 121, 122, 201, and 202.
- University of Michigan Ann Arbor choose SPAN 121, 122, 201, and 202.
- University of Michigan Flint (English BA with Creative Writing/Workplace Writing) choose ENGL 124, ENGL 127, ENGL 290, and GRMN or JAPN or SPAN 121 and 122.
- Western Michigan University (Creative Writing) choose 2 from ENGL 255 or ENGL 256 or ENGL 266 or ENGL 267, and choose ENGL 260, and GRMN or JAPN or SPAN 121 and 122.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or 131
ENGL 200
Limited Choice – Social Sciences
Elective

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ENGL 261
MATH 119 or MATH 120 or STAT 170
Limited Choice
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Elective

Semester III
ENGL 278
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice – Social Sciences
Elective

Semester IV
ENGL 279
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Criminal Justice A.A.

Career Community: Public Service Careers

Curriculum Code: 0146

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of CJUS 101 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program, West Campus Building, Room M127, telephone number 517-483-1570, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - Some courses meet General Education requirements for MTA.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 102	Crime Causes and Conditions	3 / 3
CJUS 103	Criminal Law	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 201	Criminal Justice Org/Admin	3 / 3
CJUS 204	Criminal Investigation	4 / 4
CJUS 205	Policing into the 21 st Century	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
ENGL 121 or	Composition I	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 131	Honors Composition I	4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select two courses from different disciplines as indicated for each major and/or transfer institution. If specific courses are not indicated in the notes below, choose any recommended course or choose from [General Education Transfer \(MTA\): Humanities and Fine Arts](#)*

Course Code	Course Title	Credit / Billing Hours
HIST 212	U.S. History: 1877 to Present	4 / 4
PHIL 152	Introduction to Ethics	4 / 4

Major Required Courses, Limited Choice – Natural Science – *Select two courses from different disciplines, one must be a lab course, as indicated for each major and/or transfer institution. If specific courses are not indicated in the notes below, choose any recommended course or choose from [General Education Transfer \(MTA\): Natural Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
PFWH 123	Human Nutrition	3 / 3

Note: BIOL 120 is recommended for one of the courses. Students can take PFWH 123 for one of their Science courses, the other course must be a lab course.

Major Required Courses, Limited Choice – Social Sciences – *Select one course from a discipline other than SOCL, as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose the recommended course or choose from [General Education Transfer \(MTA\): Social Sciences](#)*

Course Code	Course Title	Credit / Billing Hours
PYSC 200	Introduction to Psychology	4 / 4

Note: Students considering transfer, choose PSYC 200.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required and Limited Choice Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

61 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CJUS 101 – Milestone course
CJUS 102
CJUS 103
ENGL 121 or ENGL 131

Semester II
CJUS 106
CJUS 201
COMM 130
MATH 119 or MATH 120 or STAT 170
Limited Choice – Humanities and Fine Arts

Semester III
CJUS 204
SOCL 120
Limited Choice – Humanities and Fine Arts
Limited Choice - Natural Science

Semester IV
CJUS 131
CJUS 205
SOCL 260
Limited Choice - Social Science
Limited Choice - Natural Science

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Criminal Justice - Corrections A.A.S.

Career Community: Public Service Careers

Curriculum Code: 1209

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree program prepares an individual for a career as a probation or parole officer, corrections officer, halfway house administrator, or jail corrections officer. This degree curriculum meets Michigan Corrections Officers Training Council standards. Students completing this curriculum may also be eligible to apply for the Corrections Office Certificate of Completion (0840). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CJUS 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITF 110	Intro Computer Info Systems	3 / 3
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 134	Probation and Parole	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3
CJUS 250	Correctional Institutions	3 / 3
CJUS 251	Correctional Clients	3 / 3

Course Code	Course Title	Credit / Billing Hours
CJUS 255	Human Relations/Crim Justice	3 / 3
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
PSYC 200	Introduction to Psychology	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: BIOL 120 is recommended. Students not transferring can take ANTH 280 or BIOL 121 as their Science course.

Major Required Courses, Limited Choice – Select nine credits

Course Code	Course Title	Credit / Billing Hours
CJUS 102	Crime Causes and Conditions	3 / 3

Course Code	Course Title	Credit / Billing Hours
CJUS 103	Criminal Law	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
CJUS 204	Criminal Investigation	4 / 4
CJUS 245	Report Writing/Crim Justice	3 / 3
CJUS 272	Local Corrections Academy I	5 / 5
CJUS 273	Local Corrections Academy II	3 / 5
PSYC 250	Abnormal Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CJUS 101
CJUS 131 – Milestone course
CJUS 135

Semester I
ENGL 121 or ENGL 131

Semester II
CJUS 106
CJUS 251
CJUS 255
MATH 119 or MATH 120 or STAT 170

Semester III
CITF 110
CJUS 134
CJUS 250
MGMT 234
Limited Choice

Semester IV
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
PSYC 200
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab
Limited Choice(s)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.



Criminal Justice - Digital Evidence Specialist A.A.S.

Career Community: Public Service Careers

Curriculum Code: 1803

Effective: Fall 2025 – Summer 2030

Purpose of the Major

We live in a technology driven society whereby computers aid in many if not all of our daily activities. Today's modern-day criminal uses technology to support criminal activity such as cell phones, tablets, GPS and computers. Police Officers are responsible for keeping the peace within a community using all the tools available to them. This career is perfectly suited for individuals that seek adventure and the satisfaction of helping the community using digital technology to solve crimes. Police Officers are problem solvers, emergency responders and natural investigators. This degree program prepares individuals for a career as a Digital Evidence Specialist, Law Enforcement Officer, and other criminal justice related careers such as in probation and parole. It also prepares students for possible entry into the Police Academy Program. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CJUS 207 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITC 287	Cybersecurity Incident Respons	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITN 280	IT Security Foundations	3 / 3

Course Code	Course Title	Credit / Billing Hours
CITS 225	Networking for PC Technicians	3 / 3
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 102	Crime Causes and Conditions	3 / 3
CJUS 103	Criminal Law	3 / 3
CJUS 104	Theory of Patrol	3 / 3
CJUS 203	Criminal Procedure	3 / 3
CJUS 204	Criminal Investigation	4 / 4
CJUS 207	Digital Evidence/1 st Responder	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3
CJUS 245	Report Writing/Crim Justice	3 / 3
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering transfer, choose PSYC 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: BIOL 120 is recommended. Students not transferring can take ANTH 280 as their Science course.

[General Education - Applied Degrees](#)

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITF 110
CJUS 101

Semester I
ACAD 100
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
CITF 120
CJUS 102
CJUS 207 – Milestone course
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
MGMT 234 or PSYC 200 or SOCL 120

Semester III
CITC 287
CITN 280
CJUS 103
CJUS 104
CJUS 203

Semester IV
CITS 225
CJUS 204
CJUS 210
CJUS 245
Limited Choice, Natural Science or Applied Science and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Criminal Justice - Digital Evidence Specialist C.C.

Career Community: Public Service Careers

Curriculum Code: 1802

Effective: Fall 2025 – Summer 2030

Purpose of the Major

We live in a technology driven society whereby computers aid in many if not all of our daily activities. Today's modern-day criminal uses technology to support criminal activity with the use of cell phones, tablets, GPS, and computers. Police Officers are responsible for keeping the peace within a community using all the tools available to them as well. This career is perfectly suited for individuals that seek adventure and the satisfaction of helping the community by utilizing digital technology to solve crimes. This Certificate of Completion is preparation on the road toward a future career as a Digital Forensic Analyst working with Law Enforcement Officers and other criminal justice related careers. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

Completion of CJUS 207 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITC 287	Cybersecurity Incident Respons	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITS 225	Networking for PC Technicians	3 / 3
CJUS 207	Digital Evidence/1 st Responder	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3

Minimum Total Credit Hours

21 credits / 21 billing hours

Recommended Course Sequence

Semester I
CITF 110

Semester II
CITF 120
CJUS 207 – Milestone course

Semester III
CITC 287
CITN 280

Semester IV
CITS 225
CJUS 210

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Criminal Justice - Juvenile Specialization A.A.S.

Career Community: Public Service Careers

Curriculum Code: 1475

Effective: Fall 2025 – Summer 2030

Revised: 8/19/25

Purpose of the Major

This degree program prepares an individual for a career as a probation officer, juvenile detention, residential or community site worker/professional. To fulfill requirements for this degree, students may choose to also complete the Juvenile Care Worker Certificate of Achievement option. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CJUS 106 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 102	Crime Causes and Conditions	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 133	Juvenile Residential Services	3 / 3
CJUS 134	Probation and Parole	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3

Course Code	Course Title	Credit / Billing Hours
CJUS 245	Report Writing/Crim Justice	3 / 3
CJUS 255	Human Relations/Crim Justice	3 / 3
CJUS 286	Juvenile Internship I	3 / 3
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOWK 101	Introduction to Social Work	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Major Required Courses, Limited Choice – *Select nine credits*

Course Code	Course Title	Credit / Billing Hours
CJUS 103	Criminal Law	3 / 3
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 242	The Family: Addiction/Violence	3 / 3
PSYC 202	Psychology of Personality	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 222	Adolescent Psychology	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

63 credits / 63 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CJUS 106 – Milestone course
CJUS 126
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170
PSYC 200

Semester II
CJUS 101
CJUS 131
CJUS 133
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester III
CJUS 135
CJUS 255
CJUS 286
SOWK 101
Limited Choice

Semester IV
CJUS 102
CJUS 134
CJUS 245
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Criminal Justice - Law Enforcement A.A.S.

Career Community: Public Service Careers

Curriculum Code: 1210

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree program prepares individuals for a career as a law enforcement officer. It also prepares students for possible entry into the Police Academy Program. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CJUS 101 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students who successfully complete LCC's Mid-Michigan Police Academy may substitute the Academy courses; CJUS 270, CJUS 271, PFFT 114 and PFHW 100; for the entire fourth semester of this guided pathway. Please see an advisor in the Public Service Careers Department office for more information.

Contact Information

For further information, including about career options, course substitutions and waivers, and current Mid-Michigan Police Academy admission and/or program requirements, contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITF 110	Intro Computer Info Systems	3 / 3
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 102	Crime Causes and Conditions	3 / 3

Course Code	Course Title	Credit / Billing Hours
CJUS 103	Criminal Law	3 / 3
CJUS 104	Theory of Patrol	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 201	Criminal Justice Org/Admin	3 / 3
CJUS 203	Criminal Procedure	3 / 3
CJUS 204	Criminal Investigation	4 / 4
CJUS 205	Policing into the 21 st Century	3 / 3
CJUS 207	Digital Evidence/1 st Responder	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3
CJUS 245	Report Writing/Crim Justice	3 / 3
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication	3 / 3
	Fundamentals Public Speaking	3 / 3
	Composition II	4 / 4
	Honors Composition II	4 / 4
ENGL 121 or ENGL 131	Composition I	4 / 4
	Honors Composition I	4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living	4 / 4
	College Algebra	4 / 4
	Introduction to Statistics	4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace	3 / 3
	Introduction to Psychology	4 / 4
	Introduction to Sociology	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering transfer, choose PSYC 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: BIOL 120 is recommended. Students not transferring can take ANTH 280 as their Science course.

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITF 110
CJUS 101 – Milestone course
CJUS 102
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
CJUS 103
CJUS 106
CJUS 205
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
MGMT 234 or PSYC 200 or SOCL 120

Semester III
CJUS 104
CJUS 203
CJUS 210
CJUS 245
Limited Choice – Natural Science or Applied Science and Technology Lab

Semester IV
CJUS 131
CJUS 201
CJUS 204
CJUS 207

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Customer Energy Specialist A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1022

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This curriculum is designed to give students the technical knowledge and customer relations skills to determine customer energy needs in the negotiation, design, installation, and application of utility facilities. They negotiate barriers in order to supply energy from the road or nearest energy supply center to the outside of a building under construction. Customer energy specialists are employed by utility companies, governmental agencies, heating and cooling contractors, the construction industry, and engineering and architectural firms. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of BUSN 118 and ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. Either of these classes will fulfill the prerequisite for ELTE 110 and ELTE 111.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 101	Accounting Info for Management	3 / 3
BUSN 118	Introduction to Business	3 / 3
CITA 110	Intro to Microsoft Office	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
ELTE 110	Practical Electricity	4 / 6
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
LEGL 215	Business Law-Basic Principles	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MKTG 200	Principles of Marketing	3 / 3
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses, Limited Choice - Select 15 credits

Course Code	Course Title	Credit / Billing Hours
CIVL 120	Surveying	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 141	National Electrical Code I	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 210	Global Positioning Systems	3 / 4
METD 100	Basic Mechanical Drafting	3 / 4

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.

- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 69 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118 – Milestone course
CITA 110
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
TECH 102
Limited Choice

Semester II
ACCG 101
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
ELTE 110 – Milestone course
Limited Choice

Semester III
DCTM 101
LEGL 215
MGMT 150
MKTG 200
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice
Limited Choice
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Customer Energy Specialist C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0893

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate curriculum provides entry-level technical knowledge and customer relations skills to determine customer energy needs in the negotiation, design, installation, and application of utility facilities. Course work will apply toward completion of the Customer Energy Specialist Associate Degree.

Milestone

Completion of BUSN 118 and MGMT 150 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for ELTE 110.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 101	Accounting Info for Management	3 / 3
BUSN 118	Introduction to Business	3 / 3
CITA 110	Intro to Microsoft Office	3 / 3
DCTM 101	Drafting/Intro to CAD	3 / 4
ELTE 110	Practical Electricity	4 / 6
ENGL 124	Technical Writing	3 / 3
LEGL 215	Business Law-Basic Principles	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MKTG 200	Principles of Marketing	3 / 3
TECH 102	General Industry Safety	2 / 3

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

34 credits / 39 billing hours

Recommended Course Sequence

Semester I
BUSN 118 – Milestone course
ELTE 110
TECH 102

Semester II
ACCG 101
CITA 110
ENGL 124
MGMT 150 – Milestone course

Semester III
DCTM 101
LEGL 215
MKTG 200
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Cybersecurity A.A.S.

Career Community: Computer Technology and Networking

Curriculum Code: 1832

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program is designed to provide the knowledge and skills needed to analyze security vulnerabilities, create a comprehensive incident-response plan, and implement the equipment, policies and procedures that protect a network and its related resources from unauthorized intrusion, information damage, or theft. Behaving ethically, writing policies and procedures, security operating systems, installing, and administering contemporary intrusion detection systems, and firewalls, implementing network defenses and countermeasures, responding to intrusions, and utilizing system-wide, multi-layered, compliance-based approaches are emphasized. Students completing this curriculum may also be eligible to apply for certificates of completion in Cybersecurity Foundations Certificate (1833). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITN 280 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

To be awarded this degree, students must earn a minimum grade of 2.0 in each course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

<i>Course Code</i>	<i>Course Title</i>	<i>Credit / Billing Hours</i>
ACAD 100	First-Year Experience	1 / 1
CITC 282	Ethical Hacking	3 / 3
CITC 285	System Defense	3 / 3

<i>Course Code</i>	<i>Course Title</i>	<i>Credit / Billing Hours</i>
CITC 287	Cybersecurity Incident Response	3 / 3
CITC 290	Cybersecurity Risk Management	4 / 4
CITF 140	Information Technology Ethics	3 / 3
CITF 240	IT Project Management	3 / 3
CITN 230	Linux Operating System	3 / 3
CITN 250	Microsoft Network Server	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITO 100	Cloud Foundations with AWS	3 / 3
CITP 110	Intro to Programming – Python	4 / 4
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Helpdesk Support Specialist Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 225	Networking for PC Technicians	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.
- Students considering transfer to Eastern Michigan University in Cybersecurity, choose ANTH 270 or POLS 201.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Notes:

- Students considering future transfer to Central Michigan University choose BIOL 120.
- Students considering future transfer to Eastern Michigan University in Cybersecurity choose ISCI 131.

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
CITI 100	AI Foundations	3 / 3
CITN 222	Wireless Networking & Security	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3
CITS 285	IT Professional Internship	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 65 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CITP 110
CITS 125
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215

Semester II
CITF 140
CITN 250
CITO 100
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
CITS 225

Semester III
CITF 240
CITN 230
CITN 280 – Milestone course
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice

Semester IV
CITC 282
CITC 285
CITC 287
CITC 290
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Cybersecurity Advanced C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1845

Effective: Fall 2025– Summer 2030

Purpose of the Major

This Certificate of Completion (C.C.) is tailored for working professionals in the IT industry who possess a relevant IT degree or have accrued two years of on-the-job experience. Its primary objective is to equip students with advanced knowledge and skills essential for practical applications in the field of Cybersecurity.

Within this program, students delve into fundamental concepts related to security vulnerability analysis, the creation of comprehensive incident response plans, and the implementation of equipment, policies, and procedures aimed at safeguarding networks and their associated resources from unauthorized intrusion, information compromise, or theft. The curriculum also places a strong emphasis on ethical behavior, policy and procedure development, security operating systems, as well as the installation and administration of modern intrusion detection systems and firewalls. In addition, students are trained in the implementation of network defenses and countermeasures, responding effectively to intrusions, and employing system-wide, multi-layered, compliance-based approaches.

The Cybersecurity Advanced C.C. focuses on preparing students for internationally recognized IT certifications and meeting the substantial demands of the business, industry, and government sectors.

Milestone

Completion of CITC 282 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

This Cybersecurity Advanced C.C. is intended for students who have completed Cybersecurity Foundations C.C. (1833), Cybersecurity A.A.S. (1832), or another comparable degree. For detailed admissions requirements, contact the Computer Information Technology Program at 517-267-6406 for assistance.

To be awarded the certificate, a student must earn a minimum grade of 2.0 in each course.

Students may petition, on a course-by-course basis with proper documentation, to waive prerequisite(s) based on equivalent experience or course(s) taken elsewhere. Contact a

Computer Information Technology program advisor if you have questions or would like to submit a petition.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program, West Campus, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITC 282	Ethical Hacking	3 / 3
CITC 285	System Defense	3 / 3
CITC 287	Cybersecurity Incident Respons	3 / 3
CITC 290	Cybersecurity Risk Management	4 / 4

Major Required Courses, Limited Choice – *Select 1 course*

Course Code	Course Title	Credit / Billing Hours
CITI 120	Data Analysis with Python	3 / 3
CITO 120	Cloud Architecting with AWS	3 / 3

Minimum Total Credit Hours

16 credits / 16 billing hours

Recommended Course Sequence

Semester I
CITC 282
Limited Choice

Semester II
CITC 285
CITC 287
CITC 290

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Cybersecurity Foundations C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1833

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Certificate of Completion (CC) in Cybersecurity Foundations focuses on the necessary skills required to secure, protect, and identify vulnerabilities in a network, including various operating systems and network devices. Emphasis is placed on developing the theoretical, legal, ethical, and practical skills needed to maintain security on mission-critical networking and server systems. The program is designed to provide applied skills necessary for government and industry employees. The program covers a variety of information security technologies and structured languages. The Cybersecurity program also focuses on the high-demand skills needed in business, industry, and government, as well as for internationally recognized IT certifications.

Milestone

Completion of CITN 280 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

To be awarded this Cybersecurity Foundations Certificate of Completion, a student must earn a minimum grade of 2.0 in each course. This certificate also aligns with and is stackable under the Computer Networking and Cybersecurity A.B. (1453) program of study.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program in the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITN 230	Linux Operating System	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITP 110	Intro to Programming - Python	4 / 4
CITS 125	Computer Support: A+ Cert Prep	6 / 6
CITS 225	Networking for PC Technicians	3 / 3

Minimum Total Credit Hours

19 credits / 19 billing hours

Recommended Course Sequence

Semester I
CITP 110
CITS 125

Semester II
CITS 225

Semester III
CITN 230
CITN 280 – Milestone course

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Dental Hygiene A.A.S.

Career Community: Health Careers

Curriculum Code: 0279

Effective: Fall 2025 – Summer 2027

Purpose of the Major

Dental hygienists are licensed preventive oral health care professionals. They provide educational, clinical, and therapeutic services to patients in dental offices, schools, hospitals, long-term care facilities, and other public health programs. Clinical skills include performing patient assessments; taking health histories; examining head, neck, and oral tissues for disease; checking blood pressures; exposing and processing dental x-ray pictures; applying decay-preventing agents to the teeth; polishing fillings; periodontal debridement; and polishing teeth. Upon graduation from this program which is accredited by the Commission on Dental Accreditation of the American Dental Association (CODA), 211 East Chicago Avenue, Suite 1900 Chicago, Illinois 60611, students are eligible to take the written and clinical exams necessary for licensure. In addition, students are eligible to take the Commission on Dental Competency Assessments (CDCA) exams for local anesthesia and nitrous oxide administration. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 145, or BIOL 201 and 202, BIOL 203, and CHEM 120 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Courses listed below in Semesters I, II and III must be completed or in progress by the May 1st Dental Hygiene Program admission application deadline for a Fall start date. Once admitted, a student may not begin a new semester until they have successfully completed all DENT courses listed in the previous semester with a minimum grade of 2.5.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, admission requirements, course substitutions and waivers, etc., contact the Dental Hygiene Program, Health and Human Services Building, Room 108, telephone number 517-483-

1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission, Limited Choice – *Select BIOL 145 or, BIOL 201 and BIOL 202. Minimum 2.5 grade required. This selection also satisfies the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11 (total)

Major Required Courses for Admission, Limited Choice – *Select one. Minimum 2.0 grade required. ENGL 121 or 122 recommended for transferability. This selection also satisfies the General Education English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Courses for Admission, Limited Choice – *Select one. Minimum 2.0 grade required. This selection also satisfies the General Education English Composition (second course)/Communications or Applied Communications requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Courses for Admission – *Minimum 2.5 grade required for BIOL 203 and CHEM 120. Minimum 2.0 grade required for PSYC 200, SOCL 120 and the MATH course. MATH 119 (or any course from the General Education Mathematics College Algebra category) also satisfies the General Education Mathematics or Applied Mathematics requirement. SOCL 120 also satisfies the General Education Humanities and Fine Arts or Social Sciences or Applied Social Sciences requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 203	Microbiology	3 / 3
CHEM 120	Gen Organic & Biological Chem	4 / 4
MATH 119	Math - Applications for Living	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Recommended Courses for Admission – *If taken, a minimum 2.0 grade is needed. STAT 170 or STAT 215 is recommended. Neither STAT 170 nor STAT 215 will fulfill the Dental Hygiene Program requirement of MATH 119 or higher.*

Course Code	Course Title	Credit / Billing Hours
BIOL 204	Microbiology Laboratory	1 / 3
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Minimum Total Credit Hours for Admission

30 credits / 32 billing hours

Major Required Courses - *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
DENT 140	Oral Histology & Embryology	1.5 / 1.5
DENT 142	PreClinical Dental Hygiene	3 / 3
DENT 144	PreClinic Dental Hyg Practice	2 / 8
DENT 146	Head, Neck & Oral Anatomy	3.5 / 5.5
DENT 148	Dental Radiography	3 / 5
DENT 152	Dental Hygiene I	2 / 2
DENT 154	Clinical Dental Hygiene I	2 / 8
DENT 156	Nutrition	2 / 2
DENT 158	Dental Pharmacology	3 / 3
DENT 161	Principles of Periodontics	3 / 3
DENT 174	Clinical Dental Hygiene II	1 / 4
DENT 176	Dental Materials & Methods	3 / 5
DENT 240	Anxiety & Pain Control Mgmt	2.5 / 4
DENT 242	Dental Hygiene III	2 / 2

Course Code	Course Title	Credit / Billing Hours
DENT 244	Clinical Dental Hygiene III	3 / 12
DENT 247	Oral Pathology	3 / 3
DENT 248	Dental Public Health & Educ	3 / 3
DENT 252	Dental Hygiene IV	2 / 2
DENT 254	Clinical Dental Hygiene IV	3 / 12
DENT 256	Community Oral Health	1.5 / 1.5

Recommended Course for Major

Course Code	Course Title	Credit / Billing Hours
DENT 270	Dental Hygiene Board Review	2 / 2

General Education – Applied Degrees

Major Required Courses for Admission will meet these requirements.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Science and Technology Lab

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

79 credits / 121.5 billing hours

Recommended Course Sequence for Admission

Semester I
BIOL 145 or (BIOL 201 and 202) – Milestone course(s)
ENGL 121, 122, 131, or 132
MATH 119 (or any General Education Mathematics College Algebra course)

Semester II
BIOL 203 – Milestone course
CHEM 120 – Milestone course
COMM 110, 120, 130, or 240
PSYC 200
SOCL 120

Semester III
BIOL 204 (Recommended)
STAT 170 or 215 (Recommended)

Required Course Sequence – *Courses must be completed in the semester listed.*

Semester IV (Fall)
DENT 140
DENT 142
DENT 144
DENT 146
DENT 148

Semester V (Spring)
DENT 152
DENT 154
DENT 156
DENT 158
DENT 161

Semester VI (Summer)
DENT 174
DENT 176

Semester VII (Fall)
DENT 240
DENT 242
DENT 244
DENT 247
DENT 248

Semester VIII (Spring)
DENT 252
DENT 254
DENT 256
DENT 270 (Recommended)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Digital Media: Cinematography C.C.

Career Community: Art, Design, and Media

Curriculum Code: 1450

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Cinematography is a focused course of study in the Digital, Media, Audio and Cinema program that prepares students for professional careers in digital/cinema production, particularly as it relates to the duties and skills of a cinematographer. All courses in this curriculum may be applied to the Digital Media Specialist Associate in Applied Science degree.

Milestone

Completion of DMAC 120, DMAC 130, and DMAC 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 231	Digital Cinematography II	4 / 4
DMAC 234	Studio Production Techniques	4 / 4
DMAC 246	Workshop: Video	2 / 2

Minimum Total Credit Hours

25 credits / 25 billing hours

Recommended Course Sequence

Semester I
DMAC 120 – Milestone course
DMAC 130 – Milestone course
DMAC 140 – Milestone course
Semester II
DMAC 131
DMAC 234
Semester III - Summer
DMAC 231
Semester IV
DMAC 246

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Digital Media and Design A.A.S.

Career Community: Art, Design, and Media

Curriculum Code: 1846

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Digital Media and Design curriculum prepares learners to work in the expanding multimedia and media design arena, creating digital content for multiple platforms including websites, social media, print, videos, digital signage, and collateral materials. The curriculum fuses coursework from the areas of Graphic Communications, Video, Photography, and Digital Signage to provide the students with a diverse, adaptable skill set to meet the challenges in the evolving digital media landscape. Not all courses in this program transfer to all colleges. Students planning to transfer should see a program advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of ARTS 171 and DMAC 132 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Communication, Media, and the Arts department, GB 1222, telephone number 517-483-1546, or Student Services, (location), telephone number 517-483.1200.

Major Required Courses – *Some course meet General Education requirements. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTS 102	2D Design	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 175	Creative Design and Publishing	3 / 4
ARTS 269	The Portfolio	2 / 2
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 260 or ENGL 122 or ENGL 132	Nonverbal Communication Composition II Honors Composition II	3 / 3 4 / 4 4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 232	Video Post-Production II	4 / 4
DMAC 255	Digital Presentation & Signage	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
PHOT 113	Lighting Concepts and Applic	3 / 3
PHOT 120	Still/Motion Capture & Editing	3 / 3
PHOT 200	Content on the Go	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 as shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Multimedia Design) choose ENGL 122 and, MATH 120 or STAT 170.
- Eastern Michigan University (New Media) choose ENGL 122.
- Ferris State University choose COMM 130 or COMM 200 or COMM 240, and MATH 119 or MATH 120.
- Grand Valley State University (BS in Film and Video Production) choose COMM 120 and STAT 170.
- Michigan State University (BA in Film Studies) choose any COMM and, MATH 119 or MATH 120.
- Western Michigan University (Film, Video, and Media Studies) choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses, Limited Choice – Select two

Course Code	Course Title	Credit / Billing Hours
ARTS 179	Web Design II	3 / 4
ARTS 251	Graphic Design Communications	3 / 4
DMAC 120	Intro to Audio Production	4 / 4
DMAC 141	Ethics and Impact of the Media	3 / 3
DMAC 234	Studio Production Techniques	4 / 4

For future transfer to:

- Central Michigan University (Multimedia Design) choose ARTS 251 and DMAC 120.
- Eastern Michigan University (New Media) choose ARTS 179 and DMAC 120.
- Ferris State University (Digital Animation and Game Design – General Concentration) choose DMAC 120 and DMAC 141.
- Grand Valley State University (BS Film and Video Production) choose DMAC 120 and DMAC 141.
- Western Michigan University (Film and Video Production) choose DMAC 120 and DMAC 141.

Major Required Courses, Limited Choices – Natural Sciences or Applied Sciences and Technology Lab

Select one lab course as recommended for each major and transfer institution. If a specific course is not indicated for your major or transfer institution, select any recommended course or select from [LCC General Education - Applied Degrees Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120.
- Grand Valley State University choose ASTR 201, CHEM 135, GEOG 206, ISCI 131, or PHYS 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 68 billing hours

Recommended Course Sequence

Semester I – Fall
ACAD 100
ARTS 102
ARTS 162
ARTS 171 – Milestone course
DMAC 130
PHOT 120
Semester II - Spring
ARTS 173
ARTS 175
DMAC 132 – Milestone course
ENGL 121 or ENGL 131
PHOT 113

Semester III – Fall
DMAC 232
MATH 119 or MATH 120 or STAT 170
PHOT 200
Limited Choice

Semester IV - Spring
ARTS 269
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
DMAC 255
Limited Choice
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Digital Media Specialist A.A.S.

Career Community: Art, Design, and Media

Curriculum Code: 1458

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is an integrated curriculum that prepares individuals for careers in the fields of digital media, video production and audio production. Students will apply technical knowledge and skills to all facets of production including pre-production, production, and post-production. This curriculum prepares students to function as camera operators, video and sound editors, lighting technicians, and grips. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of DMAC 120, DMAC 130, and DMAC 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4

Course Code	Course Title	Credit / Billing Hours
DMAC 132	Video Post-Production I	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 141	Ethics and Impact of the Media	3 / 3
DMAC 231	Digital Cinematography II	4 / 4
DMAC 232	Video Post-Production II	4 / 4
DMAC 234	Studio Production Techniques	4 / 4
DMAC 246*	Workshop: Video	2 / 2
DMAC 260	World Cinema	4 / 4
DMAC 295	Media/Cinema Portfolio	2 / 2
DMAC 296	Media/Cinema Internship	3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

*DMAC 246 must be repeated for a total of 4 credits toward this degree.

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Media Arts or Cinema Arts) choose ENGL 122 or ENGL 132 and, MATH 119 or MATH 120.
- Eastern Michigan University choose ENGL 122.
- Ferris State University choose COMM 130 or COMM 200 or COMM 240 and, MATH 119 or MATH 120.
- Grand Valley State University (BS in Journalism, Broadcasting, and Digital Media) choose COMM 120 and STAT 170.
- Michigan State University (BA in Film Studies) choose any COMM and, MATH 119 or MATH 120.

- Western Michigan University (Film, Video, and Media Studies) choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course below or select from [LCC General Education - Applied Degrees Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120 and a non-BIOL course.
- Grand Valley State University choose 2 from ASTR 201, CHEM 135, GEOG 206, ISCI 131, or PHYS 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
DMAC 120 – Milestone course
DMAC 130 – Milestone course
DMAC 140 – Milestone course
ENGL 121 or ENGL 131
Semester II
DMAC 131
DMAC 132
DMAC 234
MATH 119 or MATH 120 or STAT 170
Semester III (Summer)
DMAC 231
Semester IV
DMAC 141
DMAC 232
DMAC 246
Limited Choice Natural Sciences or Applied Sciences and Technology Lab
Semester V
DMAC 246
DMAC 260
DMAC 295
DMAC 296

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Digital Media: Transfer A.A.S.

Career Community: Art, Design, and Media

Curriculum Code: 1452

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree focuses on providing individuals with the foundational knowledge needed to obtain advanced training in digital media, audio, and video. The curriculum provides graduates with a broad foundation of technical abilities with an emphasis on job entry skill development in audio production, video production, and post production, as well as media distribution. This curriculum is also designed for students wishing to transfer into a four-year program. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of DMAC 120, DMAC 130, and DMAC 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTS 102	2D Design	3 / 4
COMM 120	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 141	Ethics and Impact of the Media	3 / 3
DMAC 260	World Cinema	4 / 4
ENGL 121 or	Composition I or	4 / 4
ENGL 131	Honors Composition I	4 / 4
MATH 119 or	Math – Applications for Living	4 / 4
MATH 120 or	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Media Arts or Cinema Arts) choose ENGL 122 or ENGL 132 and MATH 119 or MATH 120.
- Eastern Michigan University choose ENGL 122.
- Ferris State University choose COMM 130 or COMM 200 or COMM 240 and, MATH 119 or MATH 120.
- Grand Valley State University (BS in Journalism, Broadcasting, and Digital Media) choose COMM 120 and STAT 170.

- Michigan State University (BA in Film Studies) choose any COMM and, MATH 119 or MATH 120.
- Western Michigan University (Film, Video, and Media Studies) choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses, Limited Choice – *Select three as recommended for each transfer institution. If specific courses are not recommended, select any courses.*

Course Code	Course Title	Credit / Billing Hours
DMAC 131	Digital Cinematography I	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 231	Digital Cinematography II	4 / 4
DMAC 232	Video Post-Production II	4 / 4
DMAC 234	Studio Production Techniques	4 / 4

For future transfer to:

- Central Michigan University (Media Arts or Cinema Arts) choose DMAC 231, DMAC 232, and DMAC 234.
- Ferris State University choose DMAC 131, DMAC 132, and DMAC 234.
- Grand Valley State University choose DMAC 131, DMAC 132, and DMAC 232.
- Michigan State University choose DMAC 131 and any 2 Limited Choice.
- Western Michigan University choose DMAC 131, DMAC 231, and DMAC 234.

Major Required Courses, Limited Choice – Natural Sciences – *Select two courses from different disciplines, one must be a lab course, as recommended for each transfer institution and major, If specific courses are not indicated, choose any recommended course or choose from [LCC General Education Transfer Degrees MTA Natural Sciences](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120 and a non-BIOL course.
- Grand Valley State University choose 2 from ASTR 201, CHEM 135, GEOG 206, ISCI 131, or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences—*Select two courses from different disciplines as recommended for each transfer institution and major., If specific courses are not indicated, choose any recommended course and choose a second course from [LCC General Education Transfer Degrees MTA Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
COMM 270	Mass Media	3 / 3
COMM 280	Intercultural Communication	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Central Michigan University (Media Arts or Cinema Arts) choose COMM 270 and a non-COMM course.
- Eastern Michigan University choose COMM 280 and a non-COMM course.
- Ferris State University choose COMM 270 and a non-COMM course.
- Grand Valley State University choose COMM 270 and a non-COMM course.
- Michigan State University choose COMM 270 and a non-COMM course.
- Western Michigan University choose COMM 270 and a non-COMM course.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
DMAC 120 – Milestone course
DMAC 130 – Milestone course
ENGL 121 or ENGL 131
Limited Choice - Social Sciences

Semester II
ARTS 102
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
DMAC 140 – Milestone course
DMAC 260
MATH 119 or MATH 120 or STAT 170

Semester III
DMAC 141
Limited Choice
Limited Choice – Natural Sciences
Limited Choice – Social Sciences

Semester IV
Limited Choice
Limited Choice
Limited Choice - Natural Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Digital Media: Video/Cinema C.A.

Career Community: Art, Design, and Media

Curriculum Code: 1454

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Video/Cinema is a focused course of study in the Digital, Media, Audio and Cinema program that prepares students for professional careers in digital video/cinema production and post-production industries. All courses in this curriculum can be applied to the Digital Media Specialist Associate in Applied Science degree.

Milestone

Completion of DMAC 120, DMAC 130, and DMAC 140 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517- 483-1546, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517- 483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 140	Pre-Production Design	3 / 3
DMAC 231	Digital Cinematography II	4 / 4
DMAC 234	Studio Production Techniques	4 / 4
DMAC 246	Workshop: Video	2 / 2

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any

course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

29 credits / 29 billing hours

Recommended Course Sequence

Semester I
DMAC 120 – Milestone course
DMAC 130 – Milestone course
DMAC 140 – Milestone course
Semester II
DMAC 131
DMAC 132
DMAC 234
Semester III
DMAC 231
DMAC 246

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Drone Pilot and Maintenance C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 1825

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate prepares students for positions in industries utilizing Unmanned Aerial Systems (UAS) by providing foundational knowledge and skills in UAS mission planning, safe flight operations, software and image applications, UAS maintenance, laws and regulations, data analytics, project management, and site inspection using UAS platforms. In addition, students will prepare for and conduct unmanned flights similar to those commonly performed in the industry, observing Federal Aviation Administrations (FAA) regulations that govern UAS operations. Students completing this certificate may use the credits towards the Geospatial Science Technician Associate in Applied Science degree (0224).

Milestone

Completion of AVAU 100 and AVAU 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Geospatial Science Program, West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orient.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
AVAU 200	Advanced Drone Flight-Capstone	2 / 3
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 150	Drone Flight for Industry	3 / 4.
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	Drone Map Analysis	3 / 4

Minimum Total Credit Hours

21 credits / 28.5 billing hours

Recommended Course Sequence

Semester I
AVAU 100 – Milestone course
GSCI 100
GSCI 110
GSCI 150

Semester II
AVAU 150
AVAU 200 – Milestone course
GSCI 241
GSCI 250

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



E-Business A.B.

Career Community: Computer Technology and Networking

Curriculum Code: 0839

Effective: Fall 2025 – Summer 2030

Purpose of the Major

E-business is the use of Internet technology to conduct business transactions. Students will learn to apply technical and behavioral skills to the various progressive possibilities of e-business as it relates to current business practices. This degree can be completed entirely online. Graduates are prepared to work in a variety of manufacturing, wholesaling, retailing, or government environment. Students completing this curriculum may also be eligible to apply for a certificate in E-Business (0845). Not all courses in the program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of CITW 160 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BUSN 118	Introduction to Business	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 110 or	Helpdesk Support Specialist	3 / 3
COMM 110 or	Communication in the Workplace	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 132	Honors Composition II	4 / 4
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Development HTML & CSS	3 / 3
CITW 175	Web Site Management	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to Probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 200	Principles of Marketing	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – Select 8 credits

Course Code	Course Title	Credit / Billing Hours
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 260	Starting a Business	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3

Course Code	Course Title	Credit / Billing Hours
MKTG 120	Sales	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3

Major Required Courses, Limited Choice – Select 9 credits

Course Code	Course Title	Credit / Billing Hours
CITD 120	SQL Concepts	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 190	Intro to Programming in JAVA	4 / 4
CITW 165	Web Development JavaScript	3 / 3
CITW 180	Web Development ASP.NET	4 / 4

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: Students considering future transfer to Central Michigan University choose BIOL 120.

General Education - Applied Degrees

- English Composition or Applied English
Major Required courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

63 credits / 64 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
CITP 110
CITW 150
CITW 160 – Milestone course
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131

Semester II
CITW 175
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
MKTG 200
MKTG 210
Limited Choice– Natural Sciences Lab or Applied Sciences and Technology Lab

Semester III
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
CITW 185
MKTG 119
Limited Choice
Limited Choice

Semester IV
Limited Choice
Limited Choice
Limited Choice
Limited Choice- Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



E-Business C.A.

Career Community: Computer Technology and Networking

Curriculum Code: 0845

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate provides students with the opportunity to develop technical and marketing knowledge necessary to use the Internet as a business tool. Students will learn how to use business, marketing, and web related resources. This certificate can be completed entirely online. All of the course work in this certificate may be applied toward the E-Business Associate of Business Degree (0839).

Milestone

Completion of CITW 160 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Development HTML & CSS	3 / 3
CITW 175	Web Site Management	3 / 3
MKTG 120	Sales	3 / 3
MKTG 200	Principles of Marketing	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3

Major Required Courses, Limited Choice – *Select two courses*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
CITF 140	Information Technology Ethics	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 180	Intro to C#.NET Programming	4 / 4
CITW 165	Web Development JavaScript	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4

Major Required Courses, Limited Choice– *Select two courses*

Course Code	Course Title	Credit / Billing Hours
BUSN 260	Starting a Business	4 / 4
ENGL 124	Technical Writing	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 204	Marketing Research	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 33 billing hours

Recommended Course Sequence

Semester I
BUSN 118
CITW 150
CITW 160 – Milestone course
MKTG 200
Limited Choice
Limited Choice

Semester II
CITW 175
MKTG 120
MKTG 210
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



E-Discovery Proficiency Certificate C.C.

Career Community: Public Service Careers

Curriculum Code: 1847

Effective: Fall 2025 – Summer 2030

Description

The E-Discovery Proficiency Certificate is designed to enhance the skills of paralegals in the field of electronic discovery.

Due to an increased use of computers and digital devices, an estimated 80% of legal documents are kept entirely in digital form. Over the past decade, a body of case law has emerged to regulate the practice of exchanging electronically stored information, during litigation. This practice area deals specifically with the eDiscovery process and the associated identification, collection, processing, and review of electronically stored information.

Milestone

Completion of LEGL 115 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

This certificate is not a program approved by the American Bar Association (ABA) because it does not meet the ABA minimum of eighteen semester hours of legal specialty courses, among other requirements. If students are interested in a Lansing Community College ABA-approved program, please refer to the Legal Studies Associate Degree or the Legal Studies Post-Bachelor Certificate of Achievement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact Tracy Nothnagel, M127, 517-483-1579 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CJUS 207	Digital Evidence/1st Responder	3 / 3
LEGL 115	Introduction to Legal Studies	3 / 3
LEGL 207	eDiscovery	3 / 3
LEGL 211	Tort Law	3 / 3
LEGL 212	Litigation Procedures	3 / 3
LEGL 228	Computer Appl for the Law Ofc	3 / 3

Minimum Total Credit Hours

18 credits / 18 billing hours

Recommended Course Sequence

Semester I (Fall)
LEGL 115
LEGL 211
LEGL 228

Semester II (Spring)
CJUS 207
LEGL 207
LEGL 212

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.



Economics A.A.

Career Community: Business

Curriculum Code: 0230

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan.

Milestone

In addition to the required General Education courses in Math and English, completion of ECON 201 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Davenport University choose COMM 110.
- Central Michigan University, Ferris State University, Grand Valley State University, Michigan State University, Northwood University, Oakland University, and Siena Heights, University of Michigan Flint choose COMM 130.

Major Required Courses, Limited Choice – Economics – *Select two. See notes below for each transfer institution. If specific courses are not noted, choose any recommended courses.*

Course Code	Course Title	Credit / Billing Hours
ECON 120	Power, Authority, and Exchange	4 / 4
ECON 213	U.S. Economic/Business History	3 / 3
ECON 260	Comparative Economic Systems	3 / 3

For future transfer to:

- Central Michigan University and Grand Valley State University choose ECON 120 and one other course.
- Michigan State University choose ECON 120 and ECON 213.
- Western Michigan University choose ECON 260, and one other course.

Major Required Courses, Limited Choice – Calculus or Statistics – *Select one as indicated for each transfer institution. If a specific course is not noted, choose any recommended course.*

Course Code	Course Title	Credit / Billing Hours
MATH 126	Precalculus	5 / 5
MATH 141	Calculus with Applications	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

For future transfer to:

- Eastern Michigan University choose MATH 141.
- Ferris State University choose STAT 215.
- Grand Valley State University choose STAT 215.
- Michigan State University choose MATH 126 for the B.S.; choose MATH 141 for the B.A.
- University of Michigan Flint choose STAT 170.
- Western Michigan University choose STAT 215.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select two, each from a different discipline, from [LCC General Education Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Ferris State University and Grand Valley State University choose PHIL 151 and a non-PHIL course.

Major Required Courses, Limited Choice – Natural Sciences – *Select two, each from a different discipline from [LCC General Education Transfer Degrees \(MTA\), Natural Sciences](#); one must be a lab course.*

Central Michigan University choose BIOL 120 and PFHW 123.

Major Required Courses, Limited Choice – Social Sciences – *Select one from a discipline other than ECON from [LCC General Education Transfer Degrees \(MTA\), Social Sciences](#).*

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses, Limited Choice, Humanities and Fine Arts meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses, Limited Choice, Natural Sciences meet this requirement.
- Social Sciences
Major Required Courses, Limited Choice, Social Sciences meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
ECON 201 – Milestone course
ENGL 121 or 131
MATH 120
Semester II
COMM 110 or 130
ECON 202
Limited Choice – Calculus or Statistics
Limited Choice – Humanities and Fine Arts
Semester III (Summer)
MGMT 225
MKTG 200
Semester IV
ACCG 210
Limited Choice – Economics
Limited Choice – Natural Sciences
Limited Choice – Social Sciences
Semester V
LEGL 215
Limited Choice – Economics
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences

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Education A.A.

Career Community: Education

Curriculum Code: 1624

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of CHDV 101, and EDUC 204 or EDUC 220, with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses. Some transfer universities require a 3.0 or higher in EDUC courses.

A criminal background check is required for employment in this field. EDUC 280 requires 70 additional hours of practical experience in K-12 classrooms at two different grade levels. All public schools are required to ask for a background check for anyone who regularly visits a K-12 school building. Students in EDUC 280, Teacher Education Practicum, should be prepared to present a completed ICHAT (online State background check) to their practicum site at the beginning of the assignment.

This pathway represents a standardized selection of classes. See Education Advisor for possible amendments to the sequence of courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
EDUC 204 or EDUC 220	Educational Psychology Foundations of Education	3 / 3 3 / 3
EDUC 230	Exceptional Learners	3 / 3
EDUC 280	Teacher Education Practicum	3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ENGL 208	Children's Literature	4 / 4
HIST 211 or HIST 212 or HIST 220	U.S. History to 1877 U.S. History: 1877 to Present Michigan History	4 / 4 4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Pre-K-3, Pre-K-6, or 3-6) choose EDUC 220, ENGL 122 or 132, HIST 212, and MATH 120.
- Eastern Michigan University (Elementary Comprehensive or Early Childhood Comprehensive) choose ENGL 122 or 132, HIST 220, and MATH 120.
- Ferris State University choose EDUC 220, ENGL 122 or 132, HIST 220, and MATH 120.
- Grand Valley State University (all Elementary) choose EDUC 204, ENGL 122 or 132, HIST 211, and MATH 120.

- Michigan State University (all Elementary) choose COMM 130, EDUC 204, and MATH 120. Consult an MSU Education Advisor on the HIST course.
- Western Michigan University choose EDUC 220, COMM 130, and MATH 119.

Major Required Courses, Limited Choice - Natural Sciences - *Select two from two different disciplines to include one lab course, as indicated for each transfer institution and major. If specific courses are not indicated, choose any two courses from two different disciplines. One must be a lab course.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University (Pre-K-3, Pre-K-6, or 3-6) choose BIOL 125 and ISCI 121.
- Eastern Michigan University (Elementary Comprehensive or Early Childhood Comprehensive) choose BIOL 125 and ISCI 121.
- Ferris State University (Pre-K – 6) choose BIOL 125 and ISCI 121.
- Grand Valley State University (Pre-K – 6) choose BIOL 125 and ISCI 121.
- Grand Valley State University (Pre-K - 6) choose ISCI 121 and any non-ISCI course.
- Michigan State University choose BIOL 120 and PHYS 120.
- Saginaw Valley State University choose BIOL 121 and ISCI 121.
- Western Michigan University choose BIOL 120 and PHYS 120.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Science
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 total credits required for this degree, as indicated for each transfer institution and major. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 215	Infant Toddler Program Dev	4 / 4
COMM 120 or COMM 130	Dynamics of Communication Fundamentals Public Speaking	3 / 3 3 / 3
EDUC 226	Foundations of Literacy	3 / 3
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 220	Michigan History	4 / 4

Notes:

EDUC 226 is not highly transferrable and should only be taken as noted below.

For future transfer to:

- Central Michigan University (Pre-K-3, Pre-K-6, or 3-6) choose COMM 120 or 130, EDUC 226, and HIST 211 and 220.
- Eastern Michigan University (Early Childhood Comprehensive or Elementary Comprehensive) choose COMM 120 or 130, and GEOG 200;
- Ferris State University (pre-K-6) choose COMM 130, EDUC 226, and GEOG 200.
- Grand Valley State University (Pre-K – 6) choose GEOG 200.
- Michigan State University:
 - o (B-K) choose CHDV 111 and 215.
 - o (Pre-K - 3) choose CHDV 111 and HIST 220.
 - o (3-6) choose HIST 220.
- Western Michigan University choose HIST 220.

Minimum Total Credit Hours

60 credits / 63 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHDV 101 – Milestone course
EDUC 204 or EDUC 220 – Milestone course
EDUC 280
ENGL 121 or ENGL 131

Semester II
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
EDUC 230
MATH 119 or MATH 120 or STAT 170
Limited Choice - Natural Sciences

Semester III
HIST 211 or HIST 212 or HIST 220
Limited Choice - Natural Sciences
Electives courses as needed for total credits

Semester IV
ENGL 208
Electives courses as needed for total credits

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Education and Human Services G.A.

Career Community: Education and Human Services

Curriculum Code: 1843

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students interested in pursuing a career in education, including K-12 or early childhood education settings, or in human services. Education career options include employment as a teacher paraprofessional or a preschool teacher/administrator in a daycare setting on completion of this degree, or transfer to a four-year institution to pursue a Bachelor's degree in Education leading to teacher certification in the state of Michigan. Human Services career options include entry-level positions in a variety of social service agencies or transfer to a four-year institution to pursue a Bachelor's degree in multiple, related areas. This Career Community includes the following pathways: Child Development and Early Education, Education, Human Services, and Teacher Paraprofessional. This degree includes a set of courses common to all majors included in this Career Community and to the majority of transfer institutions. Students beginning college in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and transfer institution (if transfer is a goal).

Not all courses in this pathway transfer to all colleges.

Milestone

In addition to the required General Education courses in Math and English, completion of CHDV 101, and EDUC 204 or EDUC 220 with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must earn a minimum grade of 2.0 in all courses, except the HUSE and GERO courses in the Human Services track which require a minimum 2.5 grade.

Criminal background checks are required for employment in this field. For students in CHDV 111, CHDV 215, CHDV 220, CHDV 284, and HUSE 282 criminal background checks and DHHS Central Registry Clearance are required to meet State of Michigan Child Care Licensing regulations. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement. Students enrolled in CHDV 284 may be required to complete a TB test for field placement.

Students taking EDUC 280 should be prepared to present a completed ICHAT (online State background check) to their practicum site at the beginning of the assignment.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Child Development department, Health and Human Services Building, Room 108, telephone number 517-483-1410 for information related to the Child Development and Early Education program or the Social Sciences and Humanities department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061 for information related to the Education or Teacher Paraprofessional program, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Education and Human Services Career Community Courses – *These courses are required for all Education and Human Services programs. They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
EDUC 204 or EDUC 220	Educational Psychology Foundations of Education	3 / 3 3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose EDUC 220, ENGL 122 or 132, and MATH 120.
- Eastern Michigan University choose EDUC 204, ENGL 122 or 132, and MATH 120.
- Ferris State University choose EDUC 220, ENGL 122 or 132, and MATH 120.
- Michigan State University choose COMM 130, EDUC 204, and MATH 120.
- Grand Valley State University choose COMM 130, EDUC 204, and MATH 120.
- Saginaw Valley State University (Education) choose EDUC 220, ENGL 122, and MATH 120.
- University of Michigan Flint choose EDUC 220, ENGL 122, and MATH 120.
- Western Michigan University choose COMM 130, EDUC 220, and MATH 119.

Major Required Courses, Limited Choice – Natural Sciences – *Select one as indicated for each transfer institution and major. If a specific course is not indicated for your transfer institution or major, select any course.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and BIOL 202	Human Anatomy Human Physiology	4 / 6 4 / 5
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, Eastern Michigan University, Ferris State University, and Grand Valley State University (Child Development or Education) choose BIOL 125.
- Michigan State University and Western Michigan University (Child Development or Education) choose BIOL 120.
- Saginaw Valley State University (Education) and University of Michigan Flint (Child Development) choose BIOL 121.
- Central Michigan University, Eastern Michigan University, and Western Michigan University (Human Services or Family Studies) choose BIOL 145.

- Grand Valley State University and Michigan State University (Human Services or Family Studies) choose BIOL 145.

Major Required Courses, Limited Choice, - Child Development Track - *Select 36 credits. Choose the Child Development track if you are considering working in a childcare setting or transfer to earn Michigan K-12 certification in grade bands Birth-Pre-K or Birth-3. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field- specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for the Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 122	Creativity and Play	1 / 1
CHDV 123	Literacy and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
CHDV 129	Caring for Youngest Learners	2 / 2
CHDV 132	Leadership Early Childhood Ed	2 / 2
CHDV 135	Inclusion for Every Learner	3 / 3
CHDV 215	Infant Toddler Program Dev	4 / 4
CHDV 220	Preschool Curriculum Approach	4 / 4
CHDV 222	Caring for School-Age Children	2 / 2
CHDV 230	Early Childhood Program Admin	3 / 3
CHDV 284	Early Childhood Practicum	5 / 5
ENGL 208	Children's Literature	4 / 4
RELG 150	Intro to World Religions	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

Major Required Courses, Limited Choice - Elementary Education Track - *Select 36 credits. Choose the Elementary Education track if you are considering transfer to earn Michigan K-12 certification in grade bands Pre-K-3, Pre-K-6, K-3, or K-6. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field- specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for the Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
EDUC 204	Educational Psychology	3 / 3
EDUC 226	Foundations of Literacy	3 / 3

Course Code	Course Title	Credit / Billing Hours
EDUC 230	Exceptional Learners	3 / 3
EDUC 280	Teacher Education Practicum	3 / 3
ENGL 208	Children's Literature	4 / 4
GEOG 200	World Regional Geography	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 220	Michigan History	4 / 4
ISCI 121	Physical Science Concepts	4 / 6
MATH 201	Math for Elementary Teachers I	4 / 4

Major Required Courses, Limited Choice - Human Services Track - *Select 36 credits.*

Choose the Human Services track if you are considering working in a Human Services related field or transfer to pursue a degree in Human Services, Social Work, or a field related to Family Studies or a variety of therapy approaches. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field- specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for the Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

Course Code	Course Title	Credit / Billing Hours
ENGL 208	Children's Literature	4 / 4
GERO 100	Introduction to Human Aging	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 220	Michigan History	4 / 4
HUSE 100	Introduction to Human Services	3 / 3
HUSE 105	Personal Dynamics/Interviewing	4 / 4
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 242	The Family: Addiction/Violence	3 / 3
HUSE 282	Human Services Practicum	5 / 5
PFHW 123	Human Nutrition	3 / 3
PHIL 101	Introduction to Philosophy	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Education and Human Services Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Education and Human Services Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Education and Human Services Career Community Courses meet this requirement

- Mathematics or Applied Mathematics
Education and Human Services Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses, Limited Choice - Natural Sciences meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHDV 101 – Milestone course
EDUC 204 or EDUC 220 – Milestone course
ENGL 121 or 131
Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
Limited Choice - Natural Sciences
Students who have decided on an academic program within the Education and Human Services Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Limited Choice courses for students completing the Education and Human Services GA.
Semester III
Limited Choice courses for students completing the Education and Human Services GA.
Semester IV
Limited Choice courses for students completing the Education and Human Services GA.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



EKG Technician C.C.

Career Community: Health Careers

Curriculum Code: 1442

Effective: Fall 2025 – Summer 2026

Purpose of the Major

This certificate is designed to prepare an individual to safely and skillfully work as an EKG technician, also known as a cardiology technician at certain facilities. An EKG technician works primarily in a hospital but could also work in an outpatient clinic or cardiology practice. Completers of this curriculum meet the requirements to take any one of the various exams for EKG certification.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to receive this certificate.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Programs, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 120	Medical Terminology	4 / 4
CHSE 136	EKG Technician	3.5 / 4

Minimum Total Credit Hours

7.5 credits / 8 billing hours

Required Course Sequence

Students have the option to take the courses in one semester or two semesters.

One-Semester Option

Semester I
CHSE 120
CHSE 136

Two-Semester Option

Semester I
CHSE 120
Semester II
CHSE 136

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles [and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical and Manufacturing G.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1856

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Electrical and Manufacturing General Associate Degree at Lansing Community College introduces students to the expansive world of careers in electrical and manufacturing fields, focusing on key areas such as Electrical Technology, Electrical Utility Lineworker, Mechanical Systems, Mechatronics, Robotics, and Welding. Emphasizing practical applications and industry-relevant training, this degree program equips students with the skills needed to thrive in careers demanding skills in the areas of electrical, manufacturing, and welding fields.

Milestone

In addition to the required General Education courses in Math and English, completion of METD 100 or METD 110 or TECH 102 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The majority of instruction is hands-on laboratory time, and most lab and lectures feature small class sizes to provide generous personal interaction with your instructors. All instructors bring their extensive years of experience working within their respective industry to the classroom, including all related certifications.

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Trades Technology Department, West Campus, telephone number 517-483-1336, or Student Services, West Campus, telephone number 517-483-5509.

Electrical and Manufacturing Career Community Courses

These courses are required for all Electrical and Manufacturing programs (Electrical Technology, Electrical Utility/Lineworker, Industrial Manufacturing Engineering Technology, Manufacturing Engineering Technology, Mechanical Systems, Mechatronics – Multiskilled Maintenance Technology, Welding Technology). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses

to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METD 100 or METD 110 or TECH 102	Basic Mechanical Drafting Mechanical CAD Drafting I General Industry Safety	3 / 4 4 / 6 2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering Computer Aided Design or Manufacturing Engineering Technology, choose METD 100 or METD 110 (based on placement testing). All other students should choose TECH 102.

Students considering Industrial Manufacturing Engineering Technology, choose COMM 130, ENGL 121, and MATH 126.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Note: Students considering Computer Aided Design, Industrial Manufacturing Engineering Technology, or Welding Technology, choose METM 190.

Major Required Courses, Limited Choice - *Select 33 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
CITN 115	IoT & Automation Fundamentals	5 / 6

Course Code	Course Title	Credit / Billing Hours
DCTM 101	Drafting/Intro to CAD	3 / 4
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 106	Basic Electrical Calculations	2 / 2
ELTA 120	AC Fundamentals - Electrician	2 / 3
ELTA 155	Transformer Fundamentals	2 / 3
ELTA 160	PLC Overview for Electricians	1 / 2
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 121	Electrical Mathematics	5 / 6
ELTE 123	Motors and Transformers	5 / 7
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 136	Digital Basics	2 / 3
ELTE 141	National Electrical Code I	4 / 4
ELTE 142	National Electrical Code II	4 / 4
ELTE 145	Electrical Prints for Building	4 / 5
ELTE 150	Electric Motor Maintenance	2 / 3
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 156	Lineworker/Utility Rigging	3 / 4
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 181	Pole Climbing I	.5 / 1
ELTE 182	Pole Climbing II	.5 / 1
ELTE 185	Pole Climbing Practice I	.25 / .5
ELTE 232	Machine Controls II	4 / 6
ELTE 255	Power Instrumentation	4 / 5
ELTE 260	Programmable Controllers I	4 / 6
ELTE 261	Programmable Controllers II	6 / 8
ELTE 262	Programmable Controllers III	5 / 8
ELTE 270	Lineworker Fundamentals	1 / 1.5
ELTE 272	Electric Basic Line Climbing	4 / 6
ELTE 274	Ground/Utility Worker	6 / 9
ELTE 276	Energized Secondary Worker	5 / 8
ELTE 290	Electrical Internship	2-4 / 2-4
ENGL 122	Composition II	4 / 4
GSCI 210	Global Positioning Systems	3 / 4

Course Code	Course Title	Credit / Billing Hours
METD 110	Mechanical CAD Drafting I	4 / 6
METD 111	Mechanical CAD Drafting II	4 / 6
METD 130	Geometric Dimension/Tolerance	4 / 6
METD 150	Industrial Blueprint Reading	3 / 3
METD 220	Basic Unigraphics/NX	4 / 6
METD 221	Advanced Unigraphics/NX	4 / 6
METD 240	Basic NX Machining	4 / 5
METD 250	Detailing Assembly Drawings	4 / 6
METM 100	Manufacturing Processes	3 / 4.5
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 195	Quality /Metrology/Inspection	4 / 6
METM 220	Basic Mastercam	4 / 6
METM 221	Advanced Mastercam	4 / 6
METS 110	Mechanical Power Transmissions	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6
METS 120	Industrial Pneumatics	4 / 6
METS 125	Intro to Hydraulics/Pneumatics	4 / 6
METS 130	Industrial Hydraulics	4 / 6
METS 140	Rigging	3 / 4.5
METS 145	Automated Systems	3 / 4.5
METS 160	Introduction to Robotics	3 / 4.5
METS 161	Intro to FANUC Robotics	3 / 4.5
METS 162	Intro to ABB Robotics	3 / 4.5
METS 210	Lubrication and Bearings	4 / 6
METS 250	Gen. Prevent/Predictive Maint	3 / 4.5
METS 260	Advanced Robotics Capstone	3 / 4.5
PFFT 182	Lineworker Fitness B	1 / 2
PFFT 183	Lineworker Fitness C	2 / 4
WELD 103	Combination Welding	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 110	Gas Metal ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6
WELD 115	Robotic MIG Welding	4 / 6
WELD 125	Structural Print Reading/Weld	2 / 2
WELD 201	Tool and Die Welding	3 / 4.5
WELD 205	Pipe Welding	4 / 6
WELD 220	Structural Fab & Inspection	4 / 6

Course Code	Course Title	Credit / Billing Hours
WELD 250	Welding Internship	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course)/Communication
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 62 billing hours

Recommended Course Sequence

Full-time

Semester I
ACAD 100
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
GEOG 200 or MGMT 234 or SOCL 120
METD 100 or METD 110 or TECH 102 – Milestone
Limited Choice course for students completing the Electrical and Manufacturing GA

Semester II
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMMM 260 or ENGL 122 or ENGL 132
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
Limited Choice course(s) for students completing the Electrical and Manufacturing GA

Semester III
BIOL 120 or (CHEM 151 and CHEM 161) or METM 190 or PHYS 120 or PHYS 200 or PHYS 221
Limited Choice course(s) for students completing the Electrical and Manufacturing GA
Students who have decided on an academic program within the Electrical and Manufacturing Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Electrical and Manufacturing GA
Students who have decided on an academic program within the Electrical and Manufacturing Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Part-time

Semester I
ACAD 100
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
GEOG 200 or MGMT 234 or SOCL 120
METD 100 or METD 110 or TECH 102 - Milestone

Semester II
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMMM 260 or ENGL 122 or ENGL 132
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
Limited Choice course(s) for students completing the Electrical and Manufacturing GA

Semester III
BIOL 120 or (CHEM 151 and 161) or METM 190 or PHYS 120 or PHYS 200 or PHYS 221
Limited Choice course(s) for students completing the Electrical and Manufacturing GA
Students who have decided on an academic program within the Electrical and Manufacturing Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Electrical and Manufacturing GA
Students who have decided on an academic program within the Electrical and Manufacturing Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester V
Limited Choice course(s) for students completing the Electrical and Manufacturing GA
Students who have decided on an academic program within the Electrical and Manufacturing Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

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Electrical Apprenticeship C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1570

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This curriculum must be taken while working for an electrical contractor or other licensed employer as a registered apprentice. It is designed to provide electrical apprentices with a background in applied electrical theory and the basic skills necessary to a practicing electrician. This certificate fulfills all related trade instruction required for a United States Department of Labor, Office of Apprenticeship registered apprenticeship program in compliance with State of Michigan requirements for apprentice electricians.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in the course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students interested in pursuing an Associate in Applied Science Degree in Electrical Technology should see a program advisor for course substitutions that would more readily transfer to that degree. Students who have previously taken electrical courses should also see an advisor for possible course substitutions.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for ELTE 110.

Students who plan to pursue the Electrical Technology, Associate in Applied Science Degree (0134) should substitute ELTE 121 for ELTA 106 and ELTA 120; and ELTE 123 for ELTA 155 and ELTE 150.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 106	Basic Electrical Calculations	2 / 2
ELTA 120	AC Fundamentals - Electrician	2 / 3
ELTA 155	Transformer Fundamentals	2 / 3
ELTA 160	PLC Overview for Electricians	1 / 2
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 141	National Electrical Code I	4 / 4
ELTE 145	Electrical Prints for Building	4 / 5
ELTE 150	Electric Motor Maintenance	2 / 3
TECH 102	General Industry Safety	2 / 3

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 132	Control Panel Assembly	2 / 3
ELTE 142	National Electrical Code II	4 / 4
ELTE 232	Machine Controls II	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30.5 credits / 40.5 billing hours

Recommended Course Sequence

Semester I (Fall)
ELTE 110 – Milestone course
TECH 102

Semester II (Spring)
ELTA 105
ELTE 141
Semester III (Fall)
ELTA 106
ELTE 150
Semester IV (Spring)
ELTA 120 (First 8 weeks)
ELTA 155 (Second 8 weeks)
Semester V (Fall)
ELTE 145
Semester VI (Spring)
ELTE 131
Semester VII (Fall)
ELTA 160
ELTA 180
Semester VIII (Spring)
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Machine Controls C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 0966

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide students with entry level skills in the understanding of basic electrical theory, basic electrical operating characteristics of industrial machinery, and basic operation of programmable logic controllers. This curriculum would be an excellent choice for students wishing to enter an industrial electrical apprenticeship or for students in other industrial trades who wish to have a basic understanding of electrical control of industrial machines. All of the course work may be applied toward the Electrical Technology, Associate in Applied Science Degree.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will fulfill the prerequisite for ELTE 110.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 232	Machine Controls II	4 / 6
ELTE 260	Programmable Controllers I	4 / 6

Course Code	Course Title	Credit / Billing Hours
METS 160	Introduction to Robotics	3 / 4.5
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

27 credits / 39.5 billing hours

Recommended Course Sequence

Semester I
ELTE 110 – Milestone course
ELTE 111
METS 160
TECH 102
Semester II
ELTE 131
ELTE 132
Semester III
ELTE 232
ELTE 260

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Technology A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 0134

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Students in this program select one of three subspecialties; Construction, Automation and Control, or Power Generation. Construction electricians install electrical wiring and systems in homes, offices, stores or industrial plants. Automation and machine control designers are responsible for designing control systems that operate automated work cells in manufacturing facilities. Industrial electricians work in industry maintaining and troubleshooting power and control circuits on machinery. Power Generation technicians operate and maintain engine or turbine-driven generators in stand-alone or integrated facilities. All subspecialties require mechanical aptitude, logical thinking and problem-solving skills. Employment opportunities vary with each specialty.

Milestone

In addition to the required General Education courses in Math and English, completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

- Students in this program choose one subspecialty pathway: 1) Construction, 2) Automation and Control, or 3) Power Generation, to determine the courses to take each semester.
- Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student's enrollment level for determining financial aid eligibility.
- If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will fulfill the prerequisite for ELTE 110, ELTE 111 and ELTE 121.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses for All Subspecialties - A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
ELTE 110	Practical Electricity	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 121	Electrical Mathematics	5 / 6
ELTE 123	Motors and Transformers	5 / 7
ELTE 131	Machine Controls I	4 / 5
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses for All Subspecialties, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees: Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for each General Education course.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses for All Subspecialties, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for each General Education course.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Major Required Courses for the Subspecialty

Take the courses as noted below for one of the following subspecialties: 1) Construction, 2) Automation and Control, or 3) Power Generation.

1 - Construction Subspecialty Pathway Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
CITN 115	IoT & Automation Fundamentals	5 / 6
DCTM 101	Drafting/Intro to CAD	3 / 4
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 160	PLC Overview for Electricians	1 / 2
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 141	National Electrical Code I	4 / 4
ELTE 142	National Electrical Code II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ELTE 145	Electrical Prints for Building	4 / 5
ELTE 150	Electric Motor Maintenance	2 / 3

2 - Automation and Control Subspecialty Pathway Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 122	Industrial Control Electronics	5 / 7
ELTE 132	Control Panel Assembly	2 / 3
ELTE 232	Machine Controls II	4 / 6
ELTE 260	Programmable Controllers I	4 / 6
ELTE 261	Programmable Controllers II	6 / 8
METS 115	Intro to Mechanical Systems	4 / 6
METS 160	Introduction to Robotics	3 / 4.5

2 - Automation and Control Subspecialty Pathway Major Required Courses, Limited Choice – *Select one or two for a minimum of 5 credits*

Course Code	Course Title	Credit / Billing Hours
ELTE 141	National Electrical Code I	4 / 4
ELTE 150	Electric Motor Maintenance	2 / 3
ELTE 262	Programmable Controllers III	5 / 8

3 - Power Generation Subspecialty Pathway Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 132	Control Panel Assembly	2 / 3
ELTE 136	Digital Basics	2 / 3
ELTE 150	Electric Motor Maintenance	2 / 3
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 251	Energy Generation & Control I	4 / 5
ELTE 252	Energy Generation & Control II	4 / 5
ELTE 255	Power Instrumentation	4 / 5
ELTE 260	Programmable Controllers I	4 / 6
ELTE 261	Programmable Controllers II	6 / 8

General Education - Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meets this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meets this requirement.

- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meets this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meets this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meets this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

67.5 credits / 85.5 billing hours

1 - Construction Subspecialty Recommended Course Sequence

Semester I
ACAD 100
CITN 115
ELTE 110
ELTE 111
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
TECH 102

Semester II
DCTM 101
ELTA 105
ELTE 112
ELTE 121
ELTE 131
ELTE 141

Semester III
BLDT 120
ELTA 160
ELTA 180
ELTE 123
ELTE 145

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ELTE 142
ELTE 150
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

2 - Automation and Control Subspecialty Recommended Course Sequence

Semester I
ACAD 100
ELTE 110 – Milestone course
ELTE 111
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
METS 160
TECH 102

Semester II
ELTE 121
ELTE 131
ELTE 132
Limited Choice

Semester III
ELTE 123
ELTE 232
ELTE 260
METS 115
Limited Choice– Natural Sciences Lab or Applied Science and Technology Lab

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ELTE 122
ELTE 261
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice

3 - Power Generation Subspecialty Recommended Course Sequence

Semester I
ACAD 100
ELTE 110 – Milestone course
ELTE 111
ELTE 173 (First 8 weeks)
ELTE 174 (Second 8 weeks)
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
TECH 102

Semester II
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ELTE 121
ELTE 131
ELTE 132
ELTE 150
ELTE 154

Semester III
ELTE 123
ELTE 136
ELTE 251
ELTE 260
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester IV
ELTE 252
ELTE 255
ELTE 261
Limited Choice – Natural Sciences Lab or Applied Science and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Technology - Construction C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0759

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide students with a background in applied electrical theory and the basic mechanical skills necessary to the practicing construction electrician.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for BLDT 120, ELTE 110, and ELTE 121.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITN 115	IoT & Automation Fundamentals	5 / 6
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 121	Electrical Mathematics	5 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 141	National Electrical Code I	4 / 4
ELTE 142	National Electrical Code II	4 / 4
ELTE 145	Electrical Prints for Building	4 / 5

Course Code	Course Title	Credit / Billing Hours
ELTE 150	Electric Motor Maintenance	2 / 3
TECH 102	General Industry Safety	2 / 3

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
BLDT 120	Structural Framing	4 / 6
DCTM 101	Drafting/Intro to CAD	3 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

40.5 credits / 50.5 billing hours

Recommended Course Sequence

Semester I (Fall)
CITN 115
ELTE 110 – Milestone course
TECH 102
Limited Choice

Semester II (Spring)
ELTA 105
ELTE 112
ELTE 121
ELTE 131
ELTE 141

Semester III (Fall)
ELTA 180
ELTE 145

Semester IV (Spring)
ELTE 142
ELTE 150

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Technology - Control Maintenance C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0760

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide students with a background in applied electrical theory and the basic mechanical skills necessary to the practicing electrician in the machine control field.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for ELTE 110 and ELTE 111.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 111	Intro to Industrial Automation	4 / 6
ELTE 122	Industrial Control Electronics	5 / 7
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 150	Electric Motor Maintenance	2 / 3
ELTE 232	Machine Controls II	4 / 6
ELTE 260	Programmable Controllers I	4 / 6
ELTE 261	Programmable Controllers II	6 / 8
METS 160	Introduction to Robotics	3 / 4.5
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

40 credits / 57.5 billing hours

Recommended Course Sequence

Semester I (Fall)
ELTE 110 – Milestone course
ELTE 111
TECH 102

Semester II (Spring)
ELTE 131
ELTE 132
METS 160

Semester III (Fall)
ELTE 150
ELTE 232
ELTE 260

Semester IV (Spring)
ELTE 122
ELTE 261

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Utility/Lineworker A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1783

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program of study prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair local, long-distance, and rural electric power cables; erect and construct pole lines; and install underground lines and cables. Includes instruction in line installation and repair, trenching, mobile equipment and crane operation, high-voltage installations, maintenance and inspection, safety, and applicable codes and standards. Department approval is required to enroll in a significant number of the courses required for this degree. Interested students should contact an Electrical Program advisor before beginning this program for information regarding admission requirements.

Milestone

In addition to the required General Education courses in Math and English, completion of ELTE 110 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

ELTE 272, ELTE 274 and ELTE 276 are scheduled in a ten-week block typically offered during Summer Semester. Enrollment is restricted to students who have received department approval and who have completed all other courses on the curriculum with a minimum 2.5 grade except PFFT 182, PFFT 183 and ELTE 182 which must be passed with a minimum 3.0 grade. Students must receive a minimum 3.0 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program. ELTE 270 is optional for students who want to attend Consumers Energy Information sessions and have the qualifying scores to enroll.

Students may substitute ELTE 121 for ELTA 106 and ELTA 120; and ELTE 123 for ELTA 155. ELTE 121 also fulfills the General Education Applied Mathematics requirement.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ELTA 106	Basic Electrical Calculations	2 / 2
ELTA 120	AC Fundamentals - Electrician	2 / 3
ELTA 155	Transformer Fundamentals	2 / 3
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 181	Pole Climbing I	.5 / 1
ELTE 182	Pole Climbing II	.5 / 1
ELTE 185	Pole Climbing Practice I	.25 / .5
ELTE 272	Electric Basic Line Climbing	4 / 6
ELTE 274	Ground/Utility Worker	6 / 9
ELTE 276	Energized Secondary Worker	5 / 8
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METS 140	Rigging	3 / 4.5
PFFT 183	Lineworker Fitness C	2 / 4
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice - Select one

Course Code	Course Title	Credit / Billing Hours
ELTE 131	Machine Controls I	4 / 5
PFPT 182	Lineworker Fitness B	1 / 2

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 79 billing hours

Recommended Course Sequence

Semester I (Summer)
ELTE 181
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Semester II (Fall)
ELTA 106
ELTE 104
ELTE 110 – Milestone course
ELTE 173 (first 8 weeks)
ELTE 174 (second 8 weeks)
ELTE 182
ELTE 185
METS 140
TECH 102

Semester III (Spring)
ELTA 120 (first 8 weeks)
ELTA 155 (second 8 weeks)
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
ELTE 154
PFFT 183
Limited Choice

Semester IV (Summer)
ELTE 272
ELTE 274
ELTE 276

Semester V (Fall)
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Utility/Lineworker C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1468

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Lineworkers install and service power lines and power line connections between electrical power plants and the customers using the electricity. These lines may be above ground on utility poles or underground. This curriculum prepares students to enter the Electric Lines Apprenticeship Program with Consumers Energy or another utility/contractor. Department approval is required to enroll in ELTE 272, ELTE 274 and ELTE 276. Those courses are held onsite at LCC's West Campus or, for those who are accepted in the Consumers Energy Climb School, at their training facility in Marshall, Michigan. Interested students should contact the Utility and Energy Systems program at Lansing Community College for information.

Milestone

Completion of ELTE 110 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

ELTE 272, ELTE 274 and ELTE 276 are scheduled in a ten-week block typically offered during Summer Semester. Enrollment is restricted to students who have received department approval and who have completed all other courses on the curriculum with a minimum 2.5 grade except for PFFT 182, PFFT 183 and ELTE 182 which must be passed with a minimum 3.0 grade. Students must receive a minimum 3.0 in ELTE 272, ELTE 274 and ELTE 276 in order to successfully complete the program. ELTE 270 is optional for students who want to attend Consumers Energy Information sessions and have the qualifying scores to enroll.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTA 106	Basic Electrical Calculations	2 / 2
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamentals II	2 / 2
ELTE 181	Pole Climbing I	.5 / 1
ELTE 182	Pole Climbing II	.5 / 1
ELTE 185	Pole Climbing Practice I	.25 / .5
ELTE 272	Electric Basic Line Climbing	4 / 6
ELTE 274	Ground/Utility Worker	6 / 9
ELTE 276	Energized Secondary Worker	5 / 8
PFFT 182	Lineworker Fitness B	1 / 2
PFFT 183	Lineworker Fitness C	2 / 4
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

35.25 credits / 50.5 billing hours

Recommended Course Sequence

Semester I (Summer)
ELTE 181
Semester II (Fall)
ELTA 106
ELTE 104
ELTE 110 – Milestone course
ELTE 173
ELTE 182
ELTE 185

Semester II (Fall)
PFFT 182
TECH 102

Semester III (Spring)
ELTE 154
ELTE 174
PFFT 183

Semester IV (Summer)
ELTE 272
ELTE 274
ELTE 276

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Electrical Wiring C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 0964

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide students with entry level skills in basic electrical theory, fundamental wiring installation techniques, smart-house technologies, and an understanding of the National Electrical Code. This curriculum would be an excellent choice for students wishing to apply for a construction electrical apprenticeship. All of the course work may be applied toward the Electrical Technology, Associate in Applied Science Degree.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for ELTE 110.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITN 115	IoT & Automation Fundamentals	5 / 6
ELTA 105	Elect. Industry Orientation	.5 / .5
ELTA 180	Introduction to Fire Alarms	1 / 1
ELTE 110	Practical Electricity	4 / 6
ELTE 112	Basic Wiring Installation	2 / 3
ELTE 141	National Electrical Code I	4 / 4
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

18.5 credits / 23.5 billing hours

Recommended Course Sequence

Semester I
CITN 115
ELTA 180
ELTE 110 – Milestone course
TECH 102

Semester II
ELTA 105
ELTE 112
ELTE 141

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Emergency Medical Services A.A.S.

Career Community: Health Careers

Curriculum Code: 0276

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Basic Emergency Medical Technicians are members of the health care team in the pre-hospital emergency care setting. EMT personnel staff ambulances and are employed in hospitals, industry, and other public service agencies. They are expected to respond rapidly and effectively to many forms of trauma and medical emergencies and work in close contact with emergency physicians. Paramedics are employed by advanced life support agencies and in emergency departments and critical care units of hospitals. The job is often fast-paced and always challenging. State licensing is required at both levels.

Milestone

In addition to the required General Education courses in Math and English, completion of EMTA 121 and EMTA 122 with a 3.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

All Emergency Medical Services courses are approved by the Michigan Department of Health and Human Services. The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs, 25400 US Highway 19 North, Suite 158, Clearwater, FL 33756, in conjunction with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions.

Students completing this degree are also eligible for the Basic Emergency Medical Technician Certificate of Completion, refer to the Basic Emergency Medical Technician C.C. pathway, Curriculum Code 1853; and, the Paramedic Certificate of Achievement, refer to the Paramedic C.A. pathway, Curriculum Code 0272. Advising guides and current information regarding Basic Emergency Medical Technician and Paramedic program requirements are available through the [LCC EMS webpage](#).

The Paramedic program approval and/or graduation requirements may change each academic year. The program requirements below apply only to those students who begin the program during the 2025/2026 academic year. For the most current information, interested students should contact the Emergency Medical Services program in the Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

To graduate from this program, students must complete the BIOL course(s) and PARA 221, 231, 241, 251, and 261 with a minimum grade of 2.5, and all other PARA courses and all EMTA courses with a minimum grade of 3.0. A minimum grade of 2.0 is required in all other courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Emergency Medical Services program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission, Limited Choice – *Select BIOL 145 or, BIOL 201 and BIOL 202. Minimum 2.5 grade required. This course will satisfy the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11

Major Required Courses – *PARA 221, PARA 231, PARA 241, PARA 251, and PARA 261 minimum 2.5 grade required; all other PARA and all EMTA courses minimum 3.0 grade required. PFHW 163 minimum 2.0 grade required.*

Course Code	Course Title	Credit / Billing Hours
EMTA 121	EMT Medical Trauma	6 / 6
EMTA 122	EMT Skills	3.5 / 6.75
EMTA 125	EMT Clinical	2.25 / 2.25
PARA 221	Paramedic Medical Trauma I	3.75 / 3.75
PARA 222	Paramedic Medical Trauma II	4 / 4
PARA 231	Paramedic Cardiology I	2.5 / 2.5
PARA 232	Paramedic Cardiology II	2.5 / 2.5
PARA 241	Paramedic Pharmacology I	2.5 / 2.5
PARA 242	Paramedic Pharmacology II	2.5 / 2.5
PARA 251	Paramedic Skills I	2.5 / 7.5
PARA 252	Paramedic Skills II	2.5 / 7.5
PARA 261	Paramedic Clinical I	2.5 / 4
PARA 262	Paramedic Clinical II	2.75 / 4
PARA 263	Paramedic Internship	4 / 4
PFHW 163	Healthy Lifestyles	2 / 3

General Education – Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one.*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 124, Technical Writing, 3 credits / 3 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course)/Communication or Applied Communication – *Select one.*
COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
ENGL 122, Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one.*
COMM 280, Intercultural Communication, 3 credits / 3 billing hours
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours
- Mathematics or Applied Mathematics – *Select one.*
MATH 119, Math – Applications for Living, 4 credits / 4 billing hours
MATH 120, College Algebra, 4 credits / 4 billing hours
MATH 126, Precalculus, 5 credits / 5 billing hours
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses for Admission will meet this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62.75 credits / 81.75 billing hours

Recommended Course Sequence

Semester I
Gen Ed – English Composition or Applied English
Gen Ed – Mathematics or Applied Mathematics
BIOL 145 or (BIOL 201 and 202)

Semester II
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Gen Ed – English Comp (second course)/ Communication or Applied Communication
PFHW 163

Required Course Sequence

Semester III (Spring)
EMTA 121 – Milestone course
EMTA 122 – Milestone course
EMTA 125

Semester IV (Fall)
PARA 221
PARA 231
PARA 241
PARA 251
PARA 261

Semester V (Spring)
PARA 222
PARA 232
PARA 242
PARA 252
PARA 262

Semester VI (Summer)
PARA 263

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



EMS Instructor-Coordinator C.C.

Career Community: Health Careers

Curriculum Code: 1638

Effective: Fall 2025 – Summer 2026

Purpose of the Major

The EMS Instructor-Coordinator (IC) course is intended for licensed EMS practitioners who have an interest in teaching EMS initial or continuing education courses. The LCC IC course meets all State of Michigan curriculum and content requirements. The curriculum provides the opportunity for building and developing teaching skills that will lead to instructional and administrative expertise in accordance with applicable state requirements for EMS educators. Students who successfully complete this course are eligible to sit for the State of Michigan EMS Instructor-Coordinator licensure exam. Additionally, the State of Michigan also requires that EMS Instructor-Coordinator licensure candidates provide proof of a minimum of three years of service with a life support agency prior to sitting for the exam.

Milestone

Completion of EMTA 222 with a 3.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

Students must complete all courses with a minimum grade of 3.0 to receive this certificate.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Emergency Medical Services Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
EMTA 222	EMS Instructor-Coordinator	9 / 9
EMTA 224	EMS Instr-Coord Student Teach	2 / 2

Minimum Total Credit Hours

11 credits / 11 billing hours

Required Course Sequence – Two-Semester Option

Semester I (Fall 2025)
EMTA 222 – Milestone course

Semester II (Spring 2026)
EMTA 224

Required Course Sequence – One-Semester Option

Semester I (Spring 2026)
EMTA 222 – Milestone course
EMTA 224

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Energy Industry Fundamentals C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1777

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This Certificate provides a foundational understanding of the structure of the United States energy industry and the opportunity to study for and earn pre-employment certifications developed for the industry. Competencies addressed include employment skills, industrial safety, mathematics, electrical theory, problem solving, blueprint reading, rigging and troubleshooting.

Milestone

Completion of ELTE 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for ELTE 110, ELTE 156 and METS 140.

Students must complete all courses on this pathway with a minimum 2.5 grade to receive this certificate.

Students who plan to pursue the Electrical Technology, Associate in Applied Science Degree (0134) should choose ELTE 121 and ELTE 123. ELTE 121 will also fulfill the General Education Applied Mathematics requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 104	Employee Worksite Basics	1 / 1
ELTE 110	Practical Electricity	4 / 6

Course Code	Course Title	Credit / Billing Hours
ELTE 154	Utility Prints and Diagrams	3 / 3
ELTE 173	Energy Industry Fundamentals I	2 / 2
ELTE 174	Energy Industry Fundamental II	2 / 2
TECH 102	General Industry Safety	2 / 3

Major Required Courses, Limited Choice – *Select either ELTA 106 and ELTA 120, or ELTE 121*

Course Code	Course Title	Credit / Billing Hours
ELTA 106	Basic Electrical Calculations	2 / 2
ELTA 120	AC Fundamentals - Electrician	2 / 3
ELTE 121	Electrical Mathematics	5 / 6

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ELTA 155	Transformer Fundamentals	2 / 3
ELTE 123	Motors and Transformers	5 / 7

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ELTE 131	Machine Controls I	4 / 5
ELTE 156	Lineworker/Utility Rigging	3 / 4
METS 140	Rigging	3 / 4.5

Minimum Total Credit Hours

23 credits / 29 billing hours

Recommended Course Sequence

Semester I
ELTA 106 (Second 8 weeks) if selected
ELTE 104 (First 8 weeks)
ELTE 110 – Milestone course
TECH 102

Semester II (Spring)
ELTA 120 (First 8 weeks) or ELTE 121 depending on selection
ELTA 155 (Second 8 weeks) if selected
ELTE 154
ELTE 173 (First 8 weeks)
ELTE 174 (Second 8 weeks)

Semester II (Spring)
Limited Choice

Semester III (Fall)
ELTE 123 if selected

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Engineering-Physics A.S.

Career Community: Science and Mathematics

Curriculum Code: 1619

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year university to pursue a Bachelor's of Science degree in Engineering or Physics with a variety of concentrations. Students completing this curriculum will also satisfy Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). This degree includes a set of courses common to all Science and Mathematics majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of PHYS 251 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120 or	Dynamics of Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4
MATH 254	Intro to Differential Equation	4 / 4
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses – Limited Choices – Humanities and Fine Arts - *Select two from [LCC General Education Transfer Degrees \(MTA\) - Humanities and Fine Arts](#). Courses must be from different disciplines.*

Major Required Courses – Limited Choices – Social Sciences - *Select two from [LCC General Education Transfer Degrees \(MTA\) - Social Sciences](#). Courses must be from different disciplines.*

Notes:

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select PSYC 200 and EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) choose PSYC 200.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University or Grand Valley State University choose EDUC 220.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities or Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to meet the 60-credit minimum required for this degree. For information on preferred courses for specific concentrations identified by transfer institutions, consult with a Program Advisor. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
BIOL 127	Cell Biology	4 / 6
CPSC 230	Algorithms and Computing w/C++	4 / 4
MATH 260	Linear Algebra	4 / 4
PHYS 260	Statics for Engineers	3 / 3
STAT 215	Intro to Probability and Stats	4 / 4

Minimum Total Credit Hours

60 credits / 66 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHEM 151
CHEM 161
ENGL 121 or ENGL 131
MATH 151

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 152
Limited Choice – Humanities and Fine Arts
Limited Choice – Social Sciences

Semester III
MATH 253
PHYS 251 – Milestone course
Limited Choice – Social Sciences
Electives as needed to meet 60 credit degree requirements

Semester IV
MATH 254
PHYS 252
Limited Choice – Humanities and Fine Arts
Electives as needed to meet 60 credit degree requirements

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Field Survey Methods and Analysis CA

Career Community: Social Sciences

Curriculum Code: 1837

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Field Methods and Analysis certificate is an interdisciplinary course of study in the Anthropology, Geography, and Geospatial Technologies programs that provides individuals with the skills and knowledge necessary to work professionally in field surveys, site evaluations, and data recoveries. Students will learn commonly used field methods, as well as current advances in field technology. Courses may be applied to the Anthropology Associate of Arts degree or the Social Sciences General Associate degree.

Milestone

Completion of ANTH 276 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, A&S 2203, telephone number 517-483-1061, or Student Services, Gannon Building – Star Zone , telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ANTH 276	Introduction to Archeology	3 / 3
ANTH 300*	Applied Field Survey Methods	8 / 8
GEOG 206	Physical Geography	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3

Major Required Courses, Limited Choice – *Select 12 credits*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 202	Geography of North America	3 / 3

Course Code	Course Title	Credit / Billing Hours
GEOL 230	Environmental Geology	4 / 6
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 240	Cartography in GIS	3 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 31 billing hours

Recommended Course Sequence

Semester I
ANTH 276 – Milestone course
GEOG 206
Limited Choice as needed for minimum credits

Semester II
ANTH 300*
GSCI 100
Limited Choice as needed for minimum credits

*8 credits required for completion

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Fire Science Academy C.C.

Career Community: Public Service Careers

Curriculum Code: 1854

Effective: Fall 2025 – Summer 2026

Purpose of the Major

The Regional Fire Training Center provides the Fire Academy Certificate Program to prepare individuals in basic fire training and fitness. Successful completion leads to certification by the Michigan Fire Fighter Training Council for Fire Fighter I and II, Hazardous Materials Operations, Vehicle Extrication, Advanced Vehicle Stabilization, NIMS 100 and 200, and Wildland Fire Fighter II through the National Wildfire Coordinating Group. Students completing this certificate may apply the credits towards both the Fire Science Technology (0123) and the Fire Science/Basic EMT (1057) Associate in Applied Science degrees.

Contact Information

For further information, including admission requirements, career options, course substitutions and waivers, etc., students must contact the Public Service Careers Program, West Campus Building, Room M127, telephone number 517-483-1570.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
FIRE 101	MI F.F.T.C. Basic Fire Level I	10 / 14
FIRE 102	MI F.F.T.C. Basic Fire Lev II	6 / 8
PFFT 119	Fire Academy Fitness Training	3 / 4

Minimum Total Credit Hours

19 credits / 26 billing hours

Recommended Course Sequence

Semester I
FIRE 101
FIRE 102
PFFT 119

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Fire Science Technology A.A.S.

Career Community: Public Service Careers

Curriculum Code: 0123

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree program provides students with the option to pursue a fire service career. This option follows a general fire service career path and has two options: Firefighter, which meets the state standards of the Michigan Fire Fighter Training Council's Fire Fighter I and II certification process, and Fire Service for students who do not wish to become a Fire Fighter.

Milestone

In addition to the required General Education courses in Math and English, completion of FIRE 100 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students who successfully complete LCC's Fire Science Academy may substitute the Academy courses; FIRE 101, FIRE 102, and PFFT 119, for the entire fourth semester of this guided pathway. Please see an advisor in the Public Service Careers Department office for more information.

Not all courses in this program transfer to all colleges. Students planning to transfer should see a Fire Science advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program via website, or in person at West Campus Building, Room M127, telephone number 517-483-1570.

Major Required Courses - Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
FIRE 100	Principles Emergency Services	4 / 4
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 210	Fire Investigation I	4 / 4
FIRE 220	Hazardous Materials/Fire Svc	4 / 5
FIRE 250	Fire Administration I	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose PSYC 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: For this Fire Science Technology major, BIOL 145 is recommended.

General Education Applied Degree, Recommended Choices

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 63 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
FIRE 100 – Milestone course
FIRE 104
FIRE 105
MATH 119 or MATH 120 or STAT 170

Semester II
FIRE 110
FIRE 112
Limited Choice - Natural Sciences or Applied Sciences and Technology Lab

Semester III
COMM 120, COMM 130, ENGL 122, or ENGL 132
FIRE 115
FIRE 125
FIRE 150
MGMT 234 or PSYC 200 or SOCL 120

Semester IV
FIRE 210
FIRE 220
FIRE 250
FIRE 270

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Fire Science/Basic EMT A.A.S.

Career Community: Public Service Careers

Curriculum Code: 1057

Effective: Fall 2025– Summer 2030

Purpose of the Major

This degree curriculum is accredited through the International Fire Service Accreditation Congress and is for students who wish to combine fire service and emergency medical service education and training into a single degree program. This degree choice will expedite the career path of those students interested in a career within public or private agencies that require credentials in both the fire and emergency medical services fields. Students will complete certifications for Fire Fighter I & II, Basic Emergency Medical Technician, Hazardous Materials Operations, Wildland Fire Fighter II, NIMS 100 and 200, Vehicle Extrication, and Advanced Vehicle Stabilization. The fire science segment meets the state standards of the Michigan Fire Fighter Training Council's Fire Fighter I and II certification process and requires department approval to enroll in the Regional Fire Training Center at Lansing Community College. Basic EMT courses are approved by the Michigan Department of Consumer and Industry Services. An EMT Academy option is available to students. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of FIRE 100 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or ENGL 122 or	Dynamics of Communication Fundamentals Public Speaking Composition II	3 / 3 3 / 3 4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 132	Honors Composition II	4 / 4
EMTA 121	EMT Medical Trauma	6 / 6
EMTA 122	EMT Skills	3.5 / 6.75
EMTA 125	EMT Clinical	2.25 / 2.25
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
FIRE 100	Principles Emergency Services	4 / 4
FIRE 101	MI F.F.T.C. Basic Fire Level I	10 / 14
FIRE 102	MI F.F.T.C. Basic Fire Lev II	6 / 8
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4
PFFT 119	Fire Academy Fitness Training	3 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose PSYC 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: BIOL 145 is recommended.

General Education - Applied Degree

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61.75 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
FIRE 101
FIRE 102
PFFT 119

Semester II
EMTA 121
EMTA 122
EMTA 125

Semester III
ENGL 121 or ENGL 131
FIRE 100 – Milestone course
FIRE 112
MATH 119 or MATH 120 or STAT 170
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester IV
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
FIRE 104
FIRE 270
MGMT 234 or PSYC 200 or SOCL 120

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.



General Associate Degree

Curriculum Code: 0863

Effective: Fall 2025 - Summer 2030

Purpose of the Major

This degree is a customized program of study for students pursuing employment in a field or transfer into a major that LCC does not offer. Many of our degrees can lead to transfer into a variety of majors. Consult with an academic advisor to choose the pathway that best meets your employment and/or transfer goals. Students intending to declare this program need initial approval from an academic advisor and then final approval from Academic Affairs. For advising options, see the [Academic Advising webpage](#).

A minimum of 60 credits is required, including the LCC General Education-Applied Degree requirements. Students must complete 40-45 credits in an area of study of their own choosing.

Milestone

Completion of the required General Education Math and English courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students should meet with an academic advisor prior to selecting courses for customized options. Courses may not be counted more than once for those options.

The following cannot be used for degree requirements:

- a) courses numbered below 100;
- b) courses in Mathematics or Statistics that are not listed on the Transfer Degrees (MTA) tab or Applied Degrees tab of the LCC [General Education webpage](#);
- c) courses in English or Writing numbered below 118;
- d) courses in English as a Second Language;
- e) courses in Reading;
- f) courses in non-technical Vocabulary;
- g) courses in Academic Experience (ACAD) numbered other than 100;
- h) courses in Student Development (SDEV) numbered other than 101.

Contact Information

Prior to beginning this program, students should meet with an academic advisor in the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Courses	Credits
Courses selected by the student	40-45

General Education – Applied Degrees

For the list of options, see [General Education](#) for Applied Degrees.

- English Composition or Applied English – *Select one course, 3-4 credits*
- English Composition (second course)/Communication or Applied Communication – *Select one course, 3-4 credits*
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one course, 3-4 credits*
- Mathematics or Applied Mathematics – *Select one course, 3-5 credits*
- Natural Sciences Lab or Applied Science and Technology Lab – *Select one or two courses, 3-5 credits*

Minimum Total Credit Hours

60 credits / 60 billing hours

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Geography A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 1858

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students seeking an associate degree for a career in a Geography field, or for students who plan to transfer to a four-year university to pursue a Bachelor of Science degree in Geography with a variety of concentrations. Students completing this degree have the option to complete courses that will satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). This degree includes a set of courses common to all Science and Mathematics majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of GEOG 120 and GEOG 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students who would like to start an entry-level job with this degree, and who are not planning to transfer, should consider taking Geospatial Science (GSCI) courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
ENGL 121 or	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 206	Physical Geography	4 / 4
GEOL 230	Environmental Geology	4 / 6
GSCI 100	Intro to Geospatial Tech	3 / 3
MATH 120 or	College Algebra	4 / 4
MATH 126 or	Precalculus	5 / 5
MATH 151	Calculus I	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Select 23 credits

For Transfer Students: *Select two courses from different disciplines from the [General Education Transfer Degrees \(MTA\) Humanities and Fine Arts category](#), and one EDUC or POLS course listed below as part of the 23 credits.*

For Career Students: *Select any courses from those listed below other than the EDUC courses.*

Course Code	Course Title	Credit / Billing Hours
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 202	Geography of North America	3 / 3
GEOG 220	Weather, Forecasting & Climate	4 / 4
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
POLS 120	American Political System	4 / 4
POLS 121	State and Local Government	4 / 4
POLS 240	Introduction to Public Policy	3 / 3
POLS 260	Comparative Political Systems	3 / 3
STAT 170	Introduction to Statistics	4 / 4

Notes:

GSCI 240 is not highly transferable and should only be taken if transferring to Michigan State University (Geography B.A.).

GSCI 110/120/210 are not highly transferable and should only be taken if pursuing an entry-level job with this degree (Career).

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 66 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
GEOG 120 – Milestone course
MATH 120 or MATH 126 or MATH 151

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
GEOL 230
Limited Choice
Limited Choice

Semester III
CHEM 151
CHEM 161
GEOG 200 – Milestone course
GSCI 100

Semester III
Limited Choice

Semester IV
GEOG 206
Limited Choice
Limited Choice
Additional Credits as needed for the total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Geology A.S.

Career Community: Science and Mathematics

Curriculum Code: 1841

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in a geology-related program. The courses outlined in this pathway are designed for students interested pursuing degrees related to geology, environmental geoscience, or earth science as their main emphasis of study. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions and qualify for an LCC Transfer Studies Certificate of Achievement.

Milestone

In addition to the required General Education courses in Math and English, completion of CHEM 151, CHEM 161, and GEOL 221 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

GEOL 222 is only offered during Spring semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department in the Arts & Sciences Building, Room 3203, telephone number 517-483-1092 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120 or	Dynamics of Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
GEOG 120 or GEOG 200	Introduction to Geography World Regional Geography	3 / 3 4 / 4
GEOL 221	Physical Geology	4 / 6
MATH 120 or MATH 126 or MATH 151	College Algebra Precalculus Calculus I	4 / 4 5 / 5 4 / 4
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Major Required Courses, Limited Choice - Social Sciences - *Select one course from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#), from a discipline other than GEOG.*

Major Required Courses, Limited Choices – *Select 10 credits*

Course Code	Course Title	Credit / Billing Hours
BIOL 210	Natural Resource Conservation	4 / 6
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4

Course Code	Course Title	Credit / Billing Hours
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
ECON 202	Principles of Economics-Macro	4 / 4
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
GSCI 100	Intro to Geospatial Tech	3 / 3
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Note: GEOL 222 is highly recommended (only offered Spring semester).

General Education – Transfer (MTA) Courses

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credit hours / 68 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
GEOL 221 – Milestone course
MATH 120 or MATH 126 or MATH 151

Semester II
CHEM 151 – Milestone course
CHEM 161 – Milestone course
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice - Humanities and Fine Arts
Limited Choice (GEOL 222 is highly recommended)

Semester III
CHEM 152
GEOG 120 or GEOG 200
PHYS 221
Limited Choice – Social Sciences
Limited Choice

Semester IV
PHYS 222
Limited Choice – Humanities and Fine Arts
Limited Choice
Elective courses as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Geospatial Science C.A.

Career Community: Computer Technology and Networking

Curriculum Code: 0834

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate program will emphasize development of components for GIS and project design based on application areas. The certificate allows beginners to become familiar with basic principles and those with some application background to become computer proficient in GIS. Students completing this certificate may use the credits towards the Geospatial Science Technician Associate in Applied Science degree (0224).

Milestone

Completion of GSCI 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students beginning this pathway in Spring Semester may want to start with the Semester II courses as many Semester I courses are only offered in Fall Semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Geospatial Science Program, West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orient.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
AVAU 200	Advanced Drone Flight-Capstone	2 / 3
CITP 110	Intro to Programming – Python	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 150	Drone Flight for Industry	3 / 4
GSCI 210	Global Positioning Systems	3 / 4

Course Code	Course Title	Credit / Billing Hours
GSCI 240	Cartography in GIS	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 250	Drone Map Analysis	3 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

31 credits / 40.5 billing hours

Recommended Course Sequence

Semester I
AVAU 100
GSCI 100
GSCI 110 – Milestone course
GSCI 150

Semester II
AVAU 150
AVAU 200
GSCI 241
GSCI 250

Semester III
CITP 110
GSCI 210
GSCI 240

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Geospatial Science Technician A.A.S.

Career Community: Computer Technology and Networking

Curriculum Code: 0224

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Geospatial Science combines computer technology, mapping technologies, aerial photography, and satellite imagery with the most current environmental resource management and environmental analysis software. Geographic Information Systems (GIS) technicians work with computer drafting, design, database management, graphic design, and computer analysis. Environmental technology requirements include a working knowledge of natural systems and related regulations and their assessment, planning, restoration, and management. GIS technicians are employed with engineering and design firms, state and federal agencies, environmental firms, parks and recreation departments, and with municipalities and local government units. Students completing this curriculum may also be eligible to apply for the Certificate of Achievement in Geospatial Science (0834). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of GSCI 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students beginning this pathway in Spring Semester may want to start with the Semester II courses as many Semester I courses are only offered in Fall Semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Geospatial Science Program, West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CITP 110	Intro to Programming-Python	4 / 4
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Helpdesk Support Specialist Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
GSCI 260	Automating Workflows in GIS	3 / 4
GSCI 264	Web GIS	3 / 4
GSCI 271	Parcel Mapping	3 / 5
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215	College Algebra Precalculus Calculus with Applications Introduction to Statistics Intro to probability and Stats	4 / 4 5 / 5 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students following specific articulation agreements with Eastern Michigan University in Cybersecurity choose STAT 170 or with Northwood University in Cybersecurity choose MATH 120. All other students considering future transfer should choose the highest MATH or STAT course into which they place to maximize options.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Science or Applied Social Science - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Science or Applied Social Science. A minimum grade of 2.0 is required for each General Education course.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTS 102	2D Design	3 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
POLS 201	Intro to Political Science	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- GEOG 200 is recommended for this major.
- Students considering future transfer, choose ANTH 270, GEOG 200, POLS 201, or SOCL 120.

Major Required Courses, Limited Choice – Natural Science or Applied Science and Technology Lab - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Science or Applied Science and Technology Lab. A minimum grade of 2.0 is required for each General Education course.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Notes:

- Students considering future transfer to Central Michigan University choose BIOL 120.
- GEOL 230 is recommended for this major.

Major Required Courses, Limited Choice – Select 7 credits

Course Code	Course Title	Credit / Billing Hours
AVAU 100	Drone Flight Orient.-FAA Exam	2 / 2.5
AVAU 150	Drone Maintenance	2 / 3
AVAU 200	Advanced Drone Flight-Capstone	2 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
CITD 120	SQL Concepts	3 / 3
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 190	Intro to Programming in JAVA	4 / 4
CITS 172	Intro to Basic Electronics	4 / 4.5
CITW 160	Web Development HTML & CSS	3 / 3
CITW 165	Web Development JavaScript	3 / 3
GSCI 150	Drone Flight for Industry	3 / 4
GSCI 250	Drone Map Analysis	3 / 4
GSCI 275	GIS Proj Mgmt & Implementation	3 / 4

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses meets this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meets this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meets this requirement
- Mathematics or Applied Mathematics
Major Required Courses meets this requirement
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meets this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
GSCI 100
GSCI 210
MATH 120 or MATH 126 or MATH 141 or STAT 170 or STAT 215
Limited Choice

Semester II
CITS 110 or COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
GSCI 110 – Milestone course
GSCI 240
Limited Choice– Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice

Semester III
CITP 110
GSCI 120
GSCI 260
GSCI 271
Limited Choice– Natural Sciences Lab or Applied Science and Technology Lab

Semester IV
GSCI 241
GSCI 264
Limited Choice as needed for minimum credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Graphic Communication A.A.A.

Career Community: Art, Design, and Media

Curriculum Code: 1533

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A graphic designer is an artist/communicator who creatively and effectively designs informational or promotional materials for output in print, web and/or a variety of mass media situations. Artistic skills related to producing effective visual information are essential for a graphic designer. An understanding of the principles of typography, color theory, computer graphic applications, web design, and pre-press techniques is necessary. Graphic designers are employed by design studios, advertising agencies, printing companies, publishers, newspapers, sign companies, and businesses that generate their own publications. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of ARTS 102, ARTS 162, and ARTS 175 for the Graphic Design subspecialty, and ARTS 102 and ARTS 173 for the Web Design subspecialty, with a 2.0 or higher are key components for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students in this program choose either the Graphic Design or Web Design subspecialty pathway to determine the courses to take each semester. Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student's enrollment level for determining financial aid eligibility.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTS 102	2-D Design	3 / 4

Course Code	Course Title	Credit / Billing Hours
ARTS 131	Drawing I	3 / 5.25
ARTS 151	Color	3 / 5.25
ARTS 162	Type Communications	3 / 4
ARTS 164	Digital Illustration	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 179	Web Design II	3 / 4
ARTS 195	Employ/Busn Issues for Artists	1 / 1
ARTS 229	Web Design III	3 / 4
ARTS 269	The Portfolio	2 / 2
ARTS 281	Art Internship	3 / 3
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 MATH 120 STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 as shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
ARTS 132	Figure Drawing	3 / 5.25
ARTS 153	Drawing II	3 / 4

Note: For future transfer to Central Michigan University choose ARTS 132.

Major Required Courses for Graphic Design Subspecialty

Course Code	Course Title	Credit / Billing Hours
ARTS 175	Creative Design and Publishing	3 / 4
ARTS 183	Design History	3 / 3
ARTS 251	Graphic Design Communications	3 / 4
ARTS 252	Graphic Design Publications	3 / 4
ARTS 253	Graphic Design Branding	3 / 4

Major Required Courses for Web Design Subspecialty

Course Code	Course Title	Credit / Billing Hours
ARTS 226	Storyboards & Animatics	3 / 4
ARTS 232	Comp Graphics/2-D Animation	3 / 4
CITD 120	SQL Concepts	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4

Major Required Courses – Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course or choose from [LCC General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#)*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Central Michigan University choose BIOL 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s)

needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 79.5 billing hours

Recommended Course Sequence for Graphic Design Subspecialty

Semester I (Fall)
ACAD 100
ARTS 102 – Milestone course
ARTS 131
ARTS 162 – Milestone course
ARTS 171
ENGL 121 or ENGL 131

Semester II (Spring)
ARTS 132 or 153
ARTS 151
ARTS 173
ARTS 175 – Milestone course
ARTS 183

Semester III (Summer)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170

Semester IV (Fall)
ARTS 164
ARTS 179
ARTS 195
ARTS 251
Gen Ed – Natural Sciences or Applied Sciences and Technology Lab

Semester V (Spring)
ARTS 229
ARTS 252
ARTS 253
ARTS 269
ARTS 281

Recommended Course Sequence for Web Design Subspecialty

Semester I (Fall)
ACAD 100
ARTS 102 – Milestone course
ARTS 131
ARTS 162
ARTS 171

Semester II (Spring)
ARTS 132 or 153
ARTS 151
ARTS 164
ARTS 173 – Milestone course
MATH 119 or MATH 120 or STAT 170

Semester III (Summer)
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester IV (Fall)
ARTS 179
ARTS 195
ARTS 232
CITD 120
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132

Semester V (Spring)
ARTS 226
ARTS 229
ARTS 269
ARTS 281
CITW 185

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Graphic Design C.A.

Career Community: Art, Design, and Media

Curriculum Code: 1020

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed for students who hold a post-secondary degree (A.A., B.A., B.F.A., or M.F.A.) in the visual arts and wish to acquire or enhance their graphic design skills to prepare for employment.

Milestone

Completion of ARTS 102 and ARTS 162 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 164	Digital Illustration	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 175	Creative Design and Publishing	3 / 4
ARTS 179	Web Design II	3 / 4
ARTS 183	Design History	3 / 3
ARTS 195	Employ/Busn Issues for Artists	1 / 1
ARTS 229	Web Design III	3 / 4
ARTS 251	Graphic Design Communications	3 / 4
ARTS 252	Graphic Design Publications	3 / 4
ARTS 253	Graphic Design Branding	3 / 4
ARTS 269	The Portfolio	2 / 2

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

39 credits / 50 billing hours

Recommended Course Sequence

Semester I (Fall)
ARTS 102 – Milestone course
ARTS 162 – Milestone course
ARTS 171
ARTS 173
Semester II (Spring)
ARTS 164
ARTS 175
ARTS 183
Semester III (Fall)
ARTS 195
ARTS 179
ARTS 251
Semester IV (Spring)
ARTS 229
ARTS 252
ARTS 253
ARTS 269

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Group Fitness Instructor C.C.

Career Community: Health Careers

Curriculum Code: 1704

Effective: Fall 2025 – Summer 2030

Purpose of the Major

After successful completion of this certificate individuals are prepared to take a Group Fitness Instructor Certification Exam by a National Commission for Certifying Agencies (NCCA) accrediting organization, such as American Council on Exercise® (ACE), or American College of Sports Medicine® (ACSM). Once the Group Fitness Instructor Certification is obtained, individuals are prepared for jobs as a Group Fitness Instructor and are eligible to take the Level 1 Exercise is Medicine® (EIM) credential exam through the American College of Sports Medicine (ACSM). This curriculum is the first certificate in the Kinesiology/Exercise Science Program curriculum. Courses for this certificate may be applied toward the Personal Trainer Certificate of Achievement and the Kinesiology/Exercise Science Associate in Applied Science degree.

Milestone

In addition to the required Math and English courses, completion of BIOL 145, or BIOL 201 and BIOL 202, with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

All courses must be completed with a minimum 2.0 grade to receive this certificate.

Some courses are offered only once a year. Review the recommended course sequence section of this pathway for course offering timeframes. To complete this certificate in three semesters, students should follow the recommended course sequence.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Kinesiology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BIOL 145 or	Intro Anatomy and Physiology	4 / 6
BIOL 201 and BIOL 202	Human Anatomy and Human Physiology	8 / 11 (total)

Course Code	Course Title	Credit / Billing Hours
COMM 110 or COMM 120 or COMM 130 or ENGL 121	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Composition I	3 / 3 3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 151 or STAT 170	College Algebra Precalculus Calculus I Introduction to Statistics	4 / 4 5 / 5 4 / 4 4 / 4
PFFT 109	Introduction to Fitness	1 / 2
PFHW 163	Healthy Lifestyles	2 / 3
PFKN 106	Group Fitness Instructor Prep	3 / 4
PFKN 170	Foundations of Kinesiology	3 / 3
PFKN 250	Measurements in Kinesiology	3 / 4
PFKN 260	Growth and Motor Behavior	3 / 3
PFWT 112	Intro to Weight Training	1 / 2

Minimum Total Credit Hours

27 credits / 34 billing hours

Recommended Course Sequence

Semester I (Fall)
BIOL 145 or BIOL 201 – Milestone course
COMM 110 or COMM 120 or COMM 130 or ENGL 121
MATH 120 or MATH 126 or MATH 151 or STAT 170
PFFT 109
PFHW 163
PFKN 170

Semester II (Spring)
BIOL 202 (if selected BIOL 201 and 202) – Milestone course
PFKN 106 (Spring offering only)
PFKN 250
PFKN 260
PFWT 112

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Heating and Air Conditioning A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 0836

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Heating, Ventilating, Air Conditioning and Refrigeration (HVAC/R) technicians work on systems that control temperature, humidity, and air quality of enclosed spaces. They are required to design, install, service, and maintain the various types of equipment used to control human comfort, preservation of food products, critical medical supplies, and computer and mechanical processes in residential, commercial, industrial, and institutional environments. Technicians must have a strong mechanical aptitude, be self-motivated, willing to accept challenges, and have a structured approach to problem solving. They should also have good communication skills, the ability to work well with others, and understand all aspects of the construction trade. Students completing this curriculum may also be eligible to apply for a Certificate of Achievement in Heating and Air Conditioning (0832).

Milestone

In addition to the required General Education courses in Math and English, completion of HVAC 100 and HVAC 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for HVAC 110, HVAC 113, and HVAC 115.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heating and Air Conditioning Program, West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3 / 4
HVAC 113	HVAC/R Piping	3 / 4
HVAC 115	Sheet Metal Fab & Installation	2 / 3
HVAC 120	Heating I	3 / 4
HVAC 130	Air Conditioning I	3 / 4
HVAC 201	Mechanical Code	4 / 4
HVAC 220	Heating II	3 / 4
HVAC 221	Introduction to Hydronics	3 / 4
HVAC 230	Air Conditioning II	3 / 4
HVAC 231	Heat Pump	3 / 4
HVAC 240	Refrigeration I	3 / 4
HVAC 241	Refrigeration II	3 / 4
HVAC 251	Fund of Direct Digital Control	3 / 4
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Precalculus Introduction to Statistics	4 / 4 4 / 4 4 / 4 5 / 5 4 / 4
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, MATH 126, or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 135	Chemistry in Society	4 / 5
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

Major Required Courses, Limited Choice - *Select two*

Course Code	Course Title	Credit / Billing Hours
DCTM 100	Intro to the Built Environment	3 / 4
DCTM 101	Drafting/Intro to CAD	3 / 4
ELTE 141	National Electrical Code I	4 / 4
ELTE 150	Electric Motor Maintenance	2 / 3
HVAC 140	Residential Energy	3 / 4
WELD 103	Combination Welding	4 / 6

General Education - Applied Degree

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

69 credits / 86 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
HVAC 100 – Milestone course
HVAC 110 – Milestone course
HVAC 113
HVAC 115
TECH 102
Semester II
HVAC 111
HVAC 120
HVAC 130
MATH 115 or MATH 119 or MATH 120 or MATH 126 or STAT 170
Limited Choice

Semester III
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
HVAC 220
HVAC 221
HVAC 230
HVAC 240
Limited Choice

Semester IV
HVAC 201
HVAC 231
HVAC 241
HVAC 251
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Heating and Air Conditioning C.A.

Career Community: Building and Construction Trades

Curriculum Code: 0832

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Students will receive instruction on how to install, service, and maintain heating, air conditioning, and refrigeration systems, including sheet metal and electrical, to prepare for entry-level positions. Students completing this certificate may use the credits towards the Heating and Air Conditioning Associate in Applied Science Degree (0836).

Milestone

Completion of HVAC 100 and HVAC 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for HVAC 110, HVAC 113, and HVAC 115.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heating and Air Conditioning Program, West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3 / 4
HVAC 113	HVAC/R Piping	3 / 4
HVAC 115	Sheet Metal Fab & Installation	2 / 3
HVAC 120	Heating I	3 / 4
HVAC 130	Air Conditioning I	3 / 4
HVAC 220	Heating II	3 / 4

Course Code	Course Title	Credit / Billing Hours
HVAC 221	Introduction to Hydronics	3 / 4
HVAC 230	Air Conditioning II	3 / 4
HVAC 240	Refrigeration I	3 / 4
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

34 credits / 45 billing hours

Recommended Course Sequence

Semester I
HVAC 100 – Milestone course
HVAC 110 – Milestone course
HVAC 113
HVAC 115
TECH 102

Semester II
HVAC 111
HVAC 120
HVAC 130

Semester III
HVAC 220
HVAC 221
HVAC 230
HVAC 240

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Heavy Equipment Repair Technician A.A.S.

Career Community: Transportation

Curriculum Code: 1055

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy-duty construction and road equipment. The technician must be knowledgeable in repair of all systems used in heavy equipment including diesel engines, fuel systems, powertrain, electronics, and hydraulics. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair. Repairs must be completed with consideration to safety, MIOSHA, and environmental guidelines. A repair technician must be able to work with a minimum of supervision as repairs may be made off site. Attention to detail and a sense of responsibility are required. Students completing this curriculum may also be eligible to apply for the Heavy Equipment Repair Certificate of Achievement (1041).

Milestone

In addition to the required General Education courses in Math and English, completion of HERT 120 and HERT 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

All Heavy Equipment Repair (HERT) courses are taught at AIS Construction, 3600 N. Grand River Ave. in Lansing. In addition, one of the courses may be taught by the AIS Construction staff.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heavy Equipment Repair Program at the West Campus Building, Room M103, telephone number 517-267-6406.

Major Required Courses - A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking	3 / 3 3 / 3 3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
HERT 110	Equipment Introduction	5 / 5
HERT 120	Heavy Engine Rebuild	6 / 6
HERT 125	Heavy Equipment Electronics	5 / 5
HERT 130	Equipment Hydraulics	6 / 6
HERT 135	Diesel Fuel Systems	4 / 4
HERT 140	Equipment Powertrain	5 / 5
HERT 145	Equipment Service Writing	4 / 4
HERT 160	Equipment HVAC/Cab Controls	4 / 6
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4 4 / 4
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

Program of Study Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

Program of Study Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - *Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
HERT 210	Heavy Equipment Internship	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
WELD 103	Combination Welding	4 / 6

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 65 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
ENGL 121 or ENGL 124 or ENGL127 or ENGL 131
HERT 110
HERT 120 – Milestone course
TECH 102
Semester II (Spring)
HERT 125 – Milestone course
HERT 140
HERT 160
Semester III (Summer)
HERT 135
HERT 145
Semester IV (Fall)
COMM 110 or COMM 120 or COMM 130
HERT 130
MATH 115 or MATH 119 or MATH 120 or STAT 170
Semester V (Spring)
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited choice – Natural Sciences Lab or Applied Science and Technology Lab
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted



Heavy Equipment Repair Technician C.A.

Career Community: Transportation

Curriculum Code: 1041

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A heavy equipment repair technician is responsible for the efficient, timely, and proper repair on a variety of heavy-duty construction and road equipment. The technician must be knowledgeable in the repair of all systems used in heavy equipment. The technician must be able to diagnose problems, plan repairs including required labor and parts, and then complete the repair with consideration to safety, MIOSHA, and environmental factors. A repair technician must be able to work with a minimum of supervision as repairs may be made off-site. Attention to detail and a sense of responsibility are required. Students completing this certificate may use the credits toward the Heavy Equipment Repair Technician Associate of Applied Science Degree (1055).

Milestone

Completion of HERT 120, HERT 125, and HERT 130 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

All Heavy Equipment Repair (HERT) courses are taught at AIS Construction, 3600 N. Grand River Ave. in Lansing. In addition, one of the courses may be taught by the AIS Construction staff.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heavy Equipment Repair Program at the West Campus Building, Room M103, telephone number 517-267-6406.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
HERT 110	Equipment Introduction	5 / 5
HERT 120	Heavy Engine Rebuild	6 / 6
HERT 125	Heavy Equipment Electronics	5 / 5
HERT 130	Equipment Hydraulics	6 / 6
HERT 135	Diesel Fuel Systems	4 / 4

Course Code	Course Title	Credit / Billing Hours
HERT 140	Equipment Powertrain	5 / 5
HERT 145	Equipment Service Writing	4 / 4
HERT 160	Equipment HVAC/Cab Controls	4 / 6
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

41 credits / 44 billing hours

Recommended Course Sequence

Semester I (Fall)
HERT 110
HERT 120 – Milestone course
HERT 130 – Milestone course
TECH 102
Semester II (Spring)
HERT 125 – Milestone course
HERT 140
HERT 160
Semester III (Summer)
HERT 135
HERT 145

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



History A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0197

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of HIST 211 and HIST 212 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
HIST 210*	Historical Methods and Skills	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

**Capstone course – must be taken during Semester IV*

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Major Required Courses, Limited Choice – *Select one*

Course Code	Course Title	Credit / Billing Hours
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HIST 235	Modern European History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4

Major Required Courses, Limited Choice – Select one.

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Major Required Courses, Limited Choice – Natural Sciences - Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Sciences](#).

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131.

Major Required Courses, Limited Choice – Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#)*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer in Secondary Education – Social Studies (History focus) to:

- Central Michigan University and Western Michigan University choose EDUC 220 and GEOG 200.
- Eastern Michigan University, Ferris State University, Grand Valley State University, and Michigan State University choose EDUC 204 and GEOG 200.
- University of Michigan Flint choose GEOG 200 and PSYC 200.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – Select courses as needed to reach the 60 credits required for this degree. (For the full list of options, see [AA and AS Degree Electives](#).)

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 150	African-American History	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 215	American Cultural Experience	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
RELG 150	Intro to World Religions	4 / 4
SOCL 260	Race and Ethnicity	3 / 3
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
HIST 211 – Milestone course
MATH 119 or MATH 120 or STAT 170
Major Required Course, Limited Choice - Natural Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
HIST 212 – Milestone course
Major Required Course, Limited Choice - Natural Sciences
Major Required Course, Limited Choice - Humanities and Fine Arts

Semester III
Major Required Course, Limited Choice - Social Sciences
Limited Choice
Electives as needed for total credits

Semester IV
HIST 210
Major Required Course, Limited Choice - Social Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



History, Humanities, and English A.A.

Career Community: History, Humanities, and English

Curriculum Code: 1860

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to transfer to a four-year college or university, with three primary programs to explore: History, English, or Humanities. Within the Career Community and Limited Choice blocks, a student will find courses that are common to the History-, English-, or Humanities-focused majors at area colleges and universities and allow a student to take courses across those disciplines with confidence that earned credits will transfer to most colleges and universities associated with LCC. Designed for students desiring to major in fields related to Art History, History, Literature, Creative Writing, Philosophy, Humanities, or Religious Studies.

Not all courses in the pathways may transfer to all colleges. Students should consult their transfer school(s) and Michigan Transfer Network for up-to-date transfer information.

Milestone

Completion of the required General Education courses in Math and English with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the English, Humanities, and Social Sciences Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

History, Humanities, and English Career Community Courses - *These courses are required for all History (including African American History and American Studies), Art History, Philosophy, Religion, Humanities, and English (including Literature and Creative Writing) programs. They should be taken before other Major Required or Limited Choice Courses. These courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0* is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Career Community Required Courses, Limited Choices – *Select two from two different disciplines as noted for each major.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Notes:

- Art History majors choose ARTH 211 or ARTH 212, and a non-ARTH course.
- Creative Writing majors choose ENGL 200 and a non-ENGL course.
- History majors choose HIST 211 or HIST 212 or HIST 215 or HIST 216, and a non-HIST course. African American History or American Studies majors choose HIST 211 or HIST 212, and a non-HIST course.
- Literature majors choose ENGL 200 or ENGL 260 or ENGL 270, and a non-ENGL course.
- Philosophy majors choose PHIL 101 or PHIL 151, and a non-PHIL course.
- Religious Studies majors choose RELG 150 or RELG 210, and a non-RELG course.

Major Required Courses, Limited Choices - Natural Sciences – *Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4

Course Code	Course Title	Credit / Billing Hours
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer in Secondary Education - English to:

- Central Michigan University and Western Michigan University choose EDUC 220 and PSYC 200.
- Eastern Michigan University, Ferris State University, Grand Valley State University, and Michigan State University choose EDUC 204 and PSYC 200.
- University of Michigan Flint choose PSYC 200 and SOCL 120.

For future transfer in Secondary Education – Social Studies (History focus) to:

- Central Michigan University and Western Michigan University choose EDUC 220 and GEOG 200.
- Eastern Michigan University, Ferris State University, Grand Valley State University, and Michigan State University choose EDUC 204 and GEOG 200.
- University of Michigan Flint choose GEOG 200 and PSYC 200.

Major Required Courses, Limited Choices - *Select 23 credits. Students should work with an Academic Advisor or Program Advisor to choose courses which best fit their major and transfer goals. Some courses meet Michigan Transfer Agreement (MTA) requirements.*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTH 216	Contemporary Art	4 / 4
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3
ENGL 200	Introduction to Literature	3 / 3
ENGL 208	Children's Literature	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 240	The Film as Art	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 261	Creative Writing I	3 / 3
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 278	Writing the Novel	3 / 3
ENGL 279	Prose Style	3 / 3
ENGL 290	Shakespeare	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HIST 150	African-American History	4 / 4
HIST 210*	Historical Methods and Skills	4 / 4
HIST 211	US History to 1877	4 / 4
HIST 212	US History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4

Course Code	Course Title	Credit / Billing Hours
HIST 235	Modern European History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 215	American Cultural Experience	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

**Capstone course for History majors. Must be taken during Semester IV.*

General Education – Transfer Degrees (MTA)

- English Composition
Career Community Courses meet this requirement.
- English Composition (Second Course) or Communications
Career Community Courses meet this requirement.
- Humanities and Fine Arts
Career Community Limited Choice Courses meet this requirement.
- Mathematics
Career Community Courses meet this requirement.

- Natural Science
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website at the institution you are considering for transfer.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I
ACAD 100
ENGL 121 or ENGL 131
Career Community Course Limited Choice
Major Required Course, Limited Choice - Social Science
Major Required Course, Limited Choice - Natural Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
Career Community Course Limited Choice
Major Required Course, Limited Choice - Social Sciences

Semester III
Major Required Courses, Limited Choice – Natural Sciences
Limited Choice Courses

Semester IV
Limited Choice Courses

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Human Resource Management A.B.

Career Community: Business

Curriculum Code: 0712

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of Human Resources Management on completion of the Associate of Business with Human Resource Management major. Human resource managers serve as a link between managers and employees. They help management make effective use of employees' skills and help employees find satisfaction in their jobs and working conditions. Graduates of this program are involved with recording and evaluating information such as job experience, education, skills, qualifications, and job performance; providing information about policies, job duties, working conditions, wages, opportunities for promotion, and employee benefits; maintaining job files on employees; administering various employee benefits; collecting and analyzing labor market data; and employee selection and training. Not all courses in this program transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for the Business, Enhanced AB, Human Resource Management track include Davenport University, Ferris State University (Business Administration – Professional Track), Oakland University, and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of MGMT 225 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228 or MGMT 304	Organization Behavior Organization Development	3 / 3 3 / 3
MGMT 229	Compensation Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MGMT 280 or MGMT 345	Mgmt/Leadership Internship Strategic Management	3 / 3 3 / 3
MGMT 337	Strategic Human Resource Mgmt	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University choose COMM 110 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Ferris State University choose COMM 130 and STAT 170.
- Northwood University and Oakland University choose MATH 120.
- Siena Heights University (Business Administration) choose STAT 170.

Major Required Course, Limited Choice – Natural Sciences Lab or Applied

Sciences and Technology Lab - *Select one course as indicated for each transfer institution.*

If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or choose from the list [LCC General Education - Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or 125 or CHEM 135 or GEOG 221 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

68 credits / 68 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
ENGL 121 or ENGL 131
MGMT 225 – Milestone course
MKTG 200

Semester II
LABR 200
MATH 120, or STAT 170
MGMT 224
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

Semester III
ECON 201
LEGL 215
MGMT 200
MGMT 228 or MGMT 304

Semester IV
COMM 110 or COMM 130
LABR 204
MGMT 227
MGMT 337

Semester V
ACCG 210
MGMT 229
MGMT 231
MGMT 234
MGMT 280 or MGMT 345

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Human Services A.A.S.

Career Community: Education and Human Services

Curriculum Code: 0915

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The trained Human Services employee assists professional staff in social service and human services agencies. The associate degree is generalist in nature, with all students acquiring an education in addictions, aging, and family. This degree is part of an enhanced career pathway into the profession. The education provides the opportunity to learn the history of human services, the necessity for a Code of Ethics, structure of community agencies, the programs and services provided, and the populations served. This curriculum is aligned with the Council for Standards in Human Service Education.

Milestone

In addition to the required General Education courses in Math and English, completion of HUSE 100 and HUSE 105 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A criminal background check and DHHS Central Registry Clearance is required for students in HUSE 282 Human Services Practicum. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement.

To receive this degree, all GERO, HUSE, and SOWK courses must be completed with a minimum grade of 2.5; all other courses must be completed with a minimum grade of 2.0. Students are encouraged to take the required program courses with their general education courses in the first, second, third, and fourth semesters to complete the degree in a timely manner.

This degree is designed for students to enter the workforce as pre-professionals and for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree. Students completing the Major Required Courses; Major Required Courses, Limited Choice – MTA Humanities and Fine Arts courses; and PFHW 123 and PSYC 200 with a minimum grade of 2.0 will satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan.

Not all courses in this curriculum transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course and should select coursework indicated for that institution. General education and subject area requirements vary from one college or university to another.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Human Services Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *A minimum grade of 2.5 is required in all GERO and HUSE courses. A minimum grade of 2.0 is required in all other courses, and is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 145 or BIOL 201 and BIOL 202	Intro Anatomy and Physiology Human Anatomy and Human Physiology	4 / 6 8 / 11
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals of Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
EDUC 204 or EDUC 220	Educational Psychology Foundations of Education	3 / 3 3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
GERO 100	Introduction to Human Aging	4 / 4
HUSE 100	Introduction to Human Services	3 / 3
HUSE 105	Personal Dynamics/ Interviewing	4 / 4
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 282	Human Services Practicum	5 / 5
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
PFHW 123	Human Nutrition	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Baker College (Human Services) choose BIOL 201 and BIOL 202, EDUC 204, ENGL 122 or ENGL 132, and STAT 170.
- Central Michigan University (Community Development – Health Sciences, Community Services, or Public Administration) choose BIOL 145, EDUC 204, ENGL 122 or ENGL 132, and MATH 120.
- Central Michigan University (Family Studies or Recreational Therapy) choose BIOL 145, EDUC 204, ENGL 122 or ENGL 132, and STAT 170.
- Eastern Michigan University (Therapeutic Recreation) choose BIOL 201 and BIOL 202, EDUC 204, ENGL 122 or ENGL 132, and MATH 120.
- Michigan State University (Human Development and Family Studies with minor in Human Services and Family Studies) choose BIOL 145, any COMM, EDUC 204, and MATH 120.
- Spring Arbor University (Human Services or Social Work) choose BIOL 145, EDUC 204, and ENGL 122 or ENGL 132.
- Western Michigan University (Social Work) choose BIOL 201 and BIOL 202, EDUC 204, ENGL 122, and STAT 170.

Major Required Courses, Limited Choice - MTA Humanities and Fine Arts – *Select two from different disciplines (alpha course codes). A minimum grade of 2.0 is required.*

Course Code	Course Title	Credit / Billing Hours
ENGL 208	Children's Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 220	Michigan History	4 / 4
MUSC 199	Music Appreciation	3 / 3
RELG 150	Intro to World Religions	4 / 4
SPAN 121	Elementary Spanish I	4 / 4

For future transfer to:

- Baker College choose HIST 211 or HIST 212.
- Central Michigan University choose HIST 211 or RELG 150.

- Spring Arbor University choose HIST 211 or HIST 212.
- Western Michigan University choose HIST 211 or HIST 212 or RELG 150.

Major Required Courses, Limited Choice – *Select 8 credits. A minimum grade of 2.5 is required for HUSE and SOWK courses; all other courses required a minimum grade of 2.0. Work with an Academic Advisor or Program Advisor to select the most appropriate courses that meet your educational and career goals. Recommendations for courses that meet requirements for specific transfer programs are indicated below.*

Course Code	Course Title	Credit / Billing Hours
CHSE 108	Long-Term Care Nurse Aide	4 / 6.5
CHSE 114	Pathophysiology-Allied Health	3 / 3
CHSE 120	Medical Terminology	4 / 4
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
HUSE 242	The Family: Addiction/Violence	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 203	Social Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SOWK 101	Introduction to Social Work	3 / 3
STAT 170	Introduction to Statistics	4 / 4

For future transfer to:

- Baker College (Human Services, B.S.) choose PSYC 200 and SOCL 120.
- Central Michigan University (Community Development – Health Sciences or Community Services) choose SOCL 120 and SOCL 260.
- Central Michigan University (Community Development – Public Administration) choose ECON 201 and ECON 202.
- Central Michigan University (Family Studies) choose SOCL 120 and SOCL 254.
- Central Michigan University (Recreational Therapy) choose PSYC 200 and PSYC 250.
- Eastern Michigan University (Therapeutic Recreation) choose CHSE 120 and PSYC 200.
- Michigan State University (Human Development and Family Studies with minor in Human Services and Family Studies) choose CHSE 120 and SOWK 101.
- Siena Heights University (Community and Human Services, B.S.) choose CJUS 106 and PSYC 203 or SOCL 254.
- Spring Arbor University (Human Services or Social Work, B.S.W.) choose SOCL 120 and SOCL 260.

- Western Michigan University (Social Work) choose PSYC 200 and SOCL 120.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communications
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice – MTA Humanities and Fine Arts meets this requirement.
- Mathematics
Major Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 62 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
CHDV 101
ENGL 121 or 131
HUSE 100 – Milestone course
PFHW 123
Semester II (Spring)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
EDUC 204 or EDUC 220
GERO 100
HUSE 105 – Milestone course (Spring only)

Semester III (Fall)
HUSE 110
MATH 119 or MATH 120 or STAT 170
Limited Choice - MTA Humanities and Fine Arts
Limited Choice

Semester IV (Spring)
BIOL 145 or BIOL 201 and BIOL 202
HUSE 282 (Spring only)
Limited Choice - MTA Humanities and Fine Arts
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Human Services C.A.

Career Community: Education and Human Services

Curriculum Code: 1201

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This Certificate of Achievement provides the essential values, knowledge, and skills to promote client and community well-being. It is designed as the second certificate in an enhanced career pathway into human services. This curriculum is aligned with the Council for Standards in Human Service Education.

Milestone

Completion of ENGL 121 or ENGL 131 with a 2.0 or higher, and HUSE 100 and HUSE 105 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

For students interested in addiction, view the [Michigan Certification Board for Addiction Professionals website](#) for current addiction credentialing.

A criminal background check and DHHS Central Registry Clearance is required for students in HUSE 282 Human Services Practicum. In addition, students may also be required to show proof of vaccinations, including COVID, prior to beginning field placement.

All GERO, HUSE, and SOWK courses must be completed with a 2.5 grade or higher; all other courses must be completed with a 2.0 grade or higher to receive this certificate. Students continuing their education are encouraged to take the required general education courses in their first, second, third and summer semesters to complete the Human Services Associate Degree on time.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Human Services Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – A 2.5 grade or higher is required.

Course Code	Course Title	Credit / Billing Hours
GERO 100	Introduction to Human Aging	4 / 4
HUSE 100	Introduction to Human Services	3 / 3
HUSE 105	Personal Dynamics/Interviewing	4 / 4
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 282	Human Services Practicum	5 / 5

Major Required Courses, Limited Choice – Select one. A 2.0 grade or higher is required.

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4

Major Required Courses, Limited Choice – Select 7 credits. A 2.5 grade or higher is required for HUSE and SOWK courses; a 2.0 grade is required for all others. Work with an Academic Advisor or Program Advisor to select the most appropriate courses that meet your educational and career goals.

Course Code	Course Title	Credit / Billing Hours
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CHSE 108	Long-Term Care Nurse Aide	4 / 6.5
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
HUSE 242	The Family: Addiction/Violence	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 203	Social Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SOWK 101	Introduction to Social Work	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 30 billing hours

Recommended Course Sequence

Semester I (Fall)
ENGL 121 or 131 – Milestone course
HUSE 100 – Milestone course
HUSE 110 (Fall offering only)
Semester II (Spring)
GERO 100
HUSE 105 – Milestone course (Spring offering only)
Semester III (Fall)
Limited Choice
Limited Choice
Semester IV (Spring)
HUSE 282 (Spring offering only)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Human Services C.C.

Career Community: Education and Human Services

Curriculum Code: 1859

Effective: Fall 2025 – Summer 2030

Description

This Certificate of Completion provides the essential values, knowledge, and skills to promote client and community well-being. It is designed as the first certificate in an enhanced career pathway into human services. This curriculum is aligned with the Council for Standards in Human Service Education.

Milestone

Completion of HUSE 100 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

For students interested in addiction, view the [Michigan Certification Board for Addiction Professionals website](#) for current addiction credentialing.

Students continuing their education for the Human Services Certificate of Achievement or Human Services Associate Degree are required to meet with a Human Services program advisor prior to, or during, their first semester of this certificate to obtain practicum information and application requirements for fall semester. Before practicum placement a criminal background check is required, and a DHHS Central Registry check is required for placement with children and families and in agencies providing services to children and families.

To earn this Certificate of Completion a 2.5 grade or higher is required in all courses. Students continuing their education are encouraged to take the required general education courses in their first, second, third and summer semesters to complete the Human Services Associate Degree on time.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Human Services Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – *Minimum 2.5 grade or higher required.*

Course Code	Course Title	Credit / Billing Hours
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
HUSE 100	Introduction to Human Services	3 / 3
HUSE 105	Personal Dynamics/Interviewing	4 / 4

Major Required Courses, Limited Choice - *Select 6 credits. Minimum 2.5 grade or higher is required. Work with an Academic Advisor or Program Advisor to select the most appropriate courses that meet your educational and career goals.*

Course Code	Course Title	Credit / Billing Hours
GERO 100	Introduction to Human Aging	4 / 4
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 242	The Family: Addiction/Violence	3 / 3
SOWK 101	Introduction to Social Work	3 / 3

Minimum Total Credit Hours

17 credits / 17 billing hours

Recommended Course Sequence

Semester I (Fall)
CHDV 101
HUSE 100 – Milestone course
Limited Choice
Semester II (Spring)
HUSE 105 (Spring offering only)
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



HVAC/R-Energy Management Engineering Technology A.A.S.

Career Community: Building and Construction Trades

Curriculum Code: 1257

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is for students interested in pursuing a Bachelor of Science Degree in HVAC/R Energy Management Engineering Technology. As this is a transfer engineering degree, be aware that this pathway contains a higher math requirement and students may need additional math prerequisite classes depending upon math placement levels.

Milestone

In addition to the required General Education courses in Math and English, completion of HVAC 100 and HVAC 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for HVAC 110.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Heating and Air Conditioning Program, West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 130	Fundamentals Public Speaking	3 / 3
ENGL 121	Composition I	4 / 4
ENGL 124	Technical Writing	3 / 3
GEOG 200	World Regional Geography	4 / 4
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3 / 4
HVAC 120	Heating I	3 / 4

Course Code	Course Title	Credit / Billing Hours
HVAC 130	Air Conditioning I	3 / 4
HVAC 201	Mechanical Code	4 / 4
HVAC 220	Heating II	3 / 4
HVAC 221	Introduction to Hydronics	3 / 4
HVAC 230	Air Conditioning II	3 / 4
HVAC 240	Refrigeration I	3 / 4
HVAC 241	Refrigeration II	3 / 4
HVAC 251	Fund of Direct Digital Control	3 / 4
MATH 126	Precalculus	5 / 5
PHYS 120	The Art of Physics	4 / 5
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 74 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 124
HVAC 100 – Milestone course
HVAC 110 – Milestone course
TECH 102
Semester II
ENGL 121
HVAC 111
HVAC 120
HVAC 130
MATH 126
Semester III
COMM 130
HVAC 220
HVAC 221
HVAC 230
HVAC 240
Semester IV
GEOG 200
HVAC 201
HVAC 241
HVAC 251
PHYS 120

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Industrial Maintenance Technician C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1484

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed for an apprentice, pre-apprentice, or person interested in advancing his/her skill set in the industrial maintenance trade. Ideally, this curriculum should be taken concurrently with an industry-based work experience or apprenticeship or in preparation for an apprenticeship in industrial or machine maintenance and repair.

Milestone

Completion of WELD 103 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will fulfill the prerequisite for the ELTE and METS courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 150	Industrial Blueprint Reading	3 / 3
METS 130	Industrial Hydraulics	4 / 6
METS 140	Rigging	3 / 4.5
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6

Major Required Courses, Limited Choice – *Select a minimum of four courses, sixteen credits*

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 131	Machine Controls I	4 / 5
MATH 115	Technical Mathematics	4 / 4
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METS 110	Mechanical Power Transmissions	4 / 6
METS 120	Industrial Pneumatics	4 / 6
METS 210	Lubrication and Bearings	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 43.5 billing hours

Recommended Course Sequence

Semester I
METD 150
TECH 102
Limited Choice

Semester II
METS 130
METS 140
WELD 103 – Milestone course

Semester III
Limited Choice
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Industrial Manufacturing Engineering Technology A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 0110

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Industrial manufacturing engineering technology is the study of a variety of technologies used in today's industry. Physical and mental skills are required including mechanical skills, problem-solving abilities, and dexterity. Employment opportunities are with industries that have a variety of work processes and/or trades. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of METM 108 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 280	Intercultural Communication	3 / 3
ELTE 110	Practical Electricity	4 / 6
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
MATH 126	Precalculus	5 / 5
METD 100	Basic Mechanical Drafting	3 / 4
METD 110	Mechanical CAD Drafting I	4 / 6
METD 130	Geometric Dimension/Tolerance	4 / 6
METD 220	Basic Unigraphics/NX	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6

Course Code	Course Title	Credit / Billing Hours
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 220	Basic Mastercam	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

General Education - Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 80 billing hours

Recommended Course Sequence

Semester I
ACAD 100
COMM 130
ELTE 110
ENGL 121
METD 100
METD 130
TECH 102

Semester II
COMM 280
METD 110
METD 220
METM 108 - Milestone

Semester III
ENGL 122
MATH 126
METM 112
METM 190

Semester IV
METM 220
METS 115

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Information Technology Foundations C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 0766

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate of completion provides the student with a broad-based introduction to the Information Technology (IT) field. The courses are selected to give the student an understanding of the use of computers in various aspects of business, some typical business applications, how computer networks function, how operating systems work, and an introduction to computer programming. Students also learn skills for basic computer repair and support, allowing them to earn the industry respected CompTIA A+ certification. This certificate is especially suited to help an undecided student select which aspect of IT to pursue, or to allow a person with a non-IT background and/or degree to add basic IT skills, or as a starting point for students seeking the Computer Networking and Cybersecurity Associate of Business degree (1453).

Milestone

Completion of CITF 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITN 120	Networking Concepts	3 / 3
CITP 110	Intro to Programming-Python	4 / 4
CITS 125	Computer Support: A+ Cert Prep	6 / 6

Minimum Total Credit Hours

19 credits / 19 billing hours

Recommended Course Sequence

Semester I
CITF 110 – Milestone course
CITN 120
CITS 125
Semester II
CITF 120
CITP 110

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Inside Wireman Apprenticeship A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1445

Effective: Fall 2025 – Summer 2030

Description

This curriculum is available only to individuals who have completed a formal apprenticeship program through Lansing Community College and hold JATC Inside Wireman journeyman-level status recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training. Upon completion of all the academic credit courses, the apprenticeship program will be evaluated and appropriate credit awarded. Students who have completed this apprenticeship work installing and servicing electrical wiring and systems in homes, offices, stores or industrial plants. This trade requires mechanical aptitude, logical thinking, and problem-solving skills. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of APPR 170 and APPR 171 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Electrical Technology Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
APPR 170	Inside Wireman Apprentice 1-A	4 / 4
APPR 171	Inside Wireman Apprentice 1-B	4 / 4
APPR 172	Inside Wireman Apprentice 1-C	4 / 4
APPR 173	Inside Wireman Apprentice 2-A	4 / 4
APPR 174	Inside Wireman Apprentice 2-B	4 / 4
APPR 175	Inside Wireman Apprentice 2-C	4 / 4
APPR 177	Inside Wireman Apprentice 3-B	4 / 4
APPR 178	Inside Wireman Apprentice 3-C	4 / 4
APPR 179	Inside Wireman Apprentice 4-A	4 / 4

Course Code	Course Title	Credit / Billing Hours
APPR 180	Inside Wireman Apprentice 4-B	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
COMM 280	Intercultural Communication	3 / 3
GEOG 200	World Regional Geography	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

General Education - Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 124, Technical Writing, 3 credits / 3 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course)/Communication or Applied Communication – *Select one*
COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meets this requirement
- Mathematics or Applied Mathematics – *Select one*
ELTE 121, Electrical Mathematics, 5 credits / 6 billing hours
MATH 115, Technical Mathematics, 4 credits / 4 billing hours
MATH 117, Math for Business, 4 credits / 4 billing hours
MATH 119, Math – Applications for Living, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Sciences and Technology Lab – *Select one*
BIOL 120, Environmental Science, 4 credits / 6 billing hours
CHEM 151 and CHEM 161, General Chemistry Lecture/Lab I, 5 credits / 7 billing hours
METM 190, Metallurgy and Heat Treatment, 4 credits / 6 billing hours
PHYS 120, The Art of Physics, 4 credits / 5 billing hours

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

Semester I - Fall
APPR 170 – Milestone course
Semester II - Spring
APPR 171 – Milestone course
Semester III - Fall
APPR 172
Semester IV - Spring
APPR 173
Gen Ed – English Composition or Applied English
Semester V - Fall
APPR 174
Gen Ed – Mathematics or Applied Mathematics
Semester VI - Spring
APPR 175
MGMT 234
Semester VII - Fall
APPR 177
Semester VIII - Spring
APPR 178
Gen Ed – English Composition (second course)/Communication or Applied Communication
Semester IX - Fall
APPR 179
Gen Ed – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester X - Spring
APPR 180
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Insurance and Risk Management A.B.

Career Community: Business

Curriculum Code: 1804

Effective: Fall 2025 – Summer 2030

Purpose of Major

This major is designed for students wishing to work in the field of Insurance and Risk Management on completion of the Associate of Business degree. Graduates of this degree will be prepared to start their career. The insurance industry is experiencing a high demand for professionals, providing graduates with many career opportunities. Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for the Business, Enhanced AB, Insurance and Risk Management track include Davenport University, Ferris State University (Business Administration – Professional Track), and Northwood University. Students wishing to transfer to the University of Olivet in the Insurance and Risk Management major should choose the Business Transfer Studies Associate in Arts degree and follow instructions for transfer to the University of Olivet, Insurance and Risk Management major.

Milestone

In addition to the required General Education courses in Math and English, completion of INSU 105 and INSU 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics-Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3
INSU 295	Insurance Internship	3 / 3
LEGL 215	Business Law–Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Davenport University and Ferris State University choose COMM 110 and STAT 170.
- Northwood University choose MATH 120.

Major Required Courses, Limited Choice – Select one.

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
ACCG 215	Financial Data Analytics	4 / 4
PSYC 200	Introduction to Psychology	4 / 4

Note: If not pursuing licensure, choose ACCG 211 for transfer.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab - *Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education, Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Northwood University choose BIOL 120.

General Education – Applied Degree Courses

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

63 credits / 63 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
ENGL 121 or ENGL 131
INSU 105 – Milestone course
MKTG 200

Semester II
INSU 110 – Milestone course
INSU 125
LEGL 215
MATH 120 or STAT 170

Semester III (Summer)
INSU 295
MGMT 225

Semester IV
ACCG 210
COMM 110 or COMM 130
ECON 201
INSU 175
INSU 285

Semester V
INSU 250
MGMT 234
Limited Choice
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Insurance and Risk Management CC

Career Community: Business

Curriculum Code: 1838

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate will prepare students for a career in the insurance industry while also providing needed designations.

Milestone

Completion of INSU 105 and INSU 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546, or Student Services, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
INSU 105	Intro to Risk Management	3 / 3
INSU 110	Personal Insurance	3 / 3
INSU 125	Commercial Insurance	3 / 3
INSU 175	Intro to Financial Advising	3 / 3
INSU 250	Claims and Underwriting	3 / 3
INSU 285	Insurance Agency Operations	3 / 3

Minimum Total Credit Hours

18 credits / 18 billing hours

Recommended Course Sequence

Semester I
INSU 105 – Milestone course
INSU 125
INSU 175

Semester II
INSU 110 – Milestone course
INSU 250
INSU 285

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



International Business A.B.

Career Community: Business

Curriculum Code: 0240

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of International Business on completion of the Associate of Business degree. International business managers plan, organize, and control projects from start to finish for organizations with international connections. They help their company achieve its goals in differing international and governmental situations. Graduates of this program may work for a variety of business and organizations, both in this hemisphere and overseas. Knowledge of a foreign language and a business or technical specialty increases one's employability. This degree can be completed entirely online. Not all courses in this program transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for the Business, Enhanced AB, International Business track include Davenport University, Ferris State University (Business Administration – Professional Track), and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of BUSN 118 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
ACCG 211	Principles of Managerial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
BUSN 201	International Business	3 / 3
BUSN 285 or MKTG 235	Business Admin Internship Marketing Internship	3 / 3 3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ECON 202	Principles of Economics - Macro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 228	Organization Behavior	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

On the recommendation of a Program Advisor, you may substitute another course for BUSN 285 or MKTG 235.

For students not considering transfer as an option, MGMT 234, Diversity in the Workplace, may be substituted for ECON 201 using the Course Substitution process. MGMT 234 meets LCC General Education requirements for Applied Degrees – Humanities or Social Science or Applied Social Science. MGMT 234 does not meet Michigan Transfer Agreement (MTA) Social Science requirements for transfer as a General Education course.

For future transfer to Davenport University, Ferris State University, and Siena Heights University choose COMM 110 and STAT 170.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied

Science and Technology Lab - *Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education, Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

Major Required Courses, Limited Choice— *Select 4 credits. Include up to 4 credits of the same Foreign Language based on proficiency testing. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
GRMN 121 or	Elementary German I	4 / 4
JAPN 121 or	Elementary Japanese I	4 / 4
SPAN 121	Elementary Spanish I	4 / 4
GRMN 122 or	Elementary German II	4 / 4
JAPN 122 or	Elementary Japanese II	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
JAPN 201 or	Intermediate Japanese I	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4

Course Code	Course Title	Credit / Billing Hours
JAPN 202 or SPAN 202	Intermediate Japanese II Intermediate Spanish II	4 / 4 4 / 4
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118 – Milestone course
ENGL 121 or ENGL 131
Limited Choice

Semester II
ACCG 210
MATH 120 or STAT 170
Limited Choice
Semester III
ACCG 211
BUSN 201
ECON 201
MGMT 225
Semester IV
COMM 110 or COMM 130
ECON 202
LEGL 215
MKTG 200
Semester V
BUSN 285 or MKTG 235
MGMT 228
MKTG 119
Limited Choice - Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Japanese Studies C.C.

Career Community: Communication, Journalism, and Language

Curriculum Code: 1787

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This Certificate of Completion in Japanese Studies provides the beginning and intermediate level Japanese language skills and cross-cultural information for students preparing to transfer to college or university programs, qualifying dual-enrolled high school or home school students, or those seeking to reinforce their own professional Japanese language and cultural competencies. In an increasingly international world economy, holders of this certificate may improve their employment opportunities, in particular since many Japanese companies have very strong ties to Michigan businesses. Students may apply all courses in this curriculum toward other certificates and/or degrees.

Milestone

Completion of JAPN 121 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
JAPN 121	Elementary Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese II	4 / 4

Minimum Total Credit Hours

16 credits / 16 billing hours

Recommended Course Sequence

Semester I
JAPN 121 – Milestone course
Semester II
JAPN 122
Semester III
JAPN 201
Semester IV
JAPN 202

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Journalism A.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 1628

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in Journalism with a variety of concentrations or who plan to pursue a Secondary Education Certification in Communication/Theatre Arts, which includes a Journalism focus, in order to teach in Michigan public schools. The degree also provides an option for students wishing to pursue freelance work in journalism. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of COMM 270 and JRNL 151 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
COMM 270	Mass Communication	3 / 3
DMAC 141	Ethics and Impact of the Media	3 / 3
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SPAN 121 or THEA 110	World Cinema Introduction to Literature Creative Writing I Elementary Japanese I Elementary Spanish I Introduction to Theater	4 / 4 3 / 3 3 / 3 4 / 4 4 / 4 3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
JRNL 151	Newswriting and Reporting	3 / 3
JRNL 254	Opinion Writing	3 / 3
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Journalism majors) choose DMAC 260 or ENGL 200 or ENGL 261, ENGL 122 or ENGL 132, PSYC 200 or SOCL 120, and STAT 170.
- Eastern Michigan University (Journalism) and Ferris State University choose ENGL 122 or ENGL 132, and MATH 119 or MATH 120.
- Eastern Michigan University (Communication and Theater Arts Secondary Education) choose ENGL 122 or ENGL 132, MATH 120, and THEA 110.
- Grand Valley State University and Michigan State University choose DMAC 260 or ENGL 200 or ENGL 261, ENGL 122 or ENGL 132, and MATH 120.

- Western Michigan University choose DMAC 260 or ENGL 200 or ENGL 261, ENGL 122 or ENGL 132, and MATH 119.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select one course from a different discipline than the Humanities and Fine Arts course selected from the Major Required Courses listed above (DMAC, ENGL, JAPN, SPAN, THEA). If a specific course is not indicated in the notes below, choose any recommended course below or choose from [General Education Transfer \(MTA\): Humanities and Fine Arts](#)*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 160	U.S. History: 1877 to Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
RELG 150	Intro to World Religions	4 / 4

Notes:

- Students interested in preparing for freelance work choose ARTS 102.
- For future transfer to Michigan State University (Journalism) choose ARTS 102.

Major Required Courses, Limited Choice – Natural Sciences - *Select two from two different disciplines, as indicated for each transfer institution and major. One must be a lab course. If specific courses are not indicated, select any two courses from different disciplines from [LCC General Education: MTA, Natural Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Central Michigan University choose BIOL 120 and any non-BIOL course.

Major Required Courses, Limited Choice – Social Sciences - *Select one course as indicated for each transfer institution and major.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
POLS 201	Intro to Political Science	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Central Michigan University (Journalism) choose PSYC 200 or SOCL 120.
- Eastern Michigan University (Journalism) choose ANTH 270 or POLS 201;
(Communication and Theater Arts Secondary Certification) choose EDUC 204.
- Ferris State University (Journalism) choose ANTH 270 or POLS 201.
- Grand Valley State University (Journalism) choose ANTH 270 or POLS 201.
- Michigan State University (Journalism) choose ANTH 270 or POLS 201.
- Western Michigan University (Journalism) choose ANTH 270, or POLS 201.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts
Major Required Courses and Limited Choice Courses will meet this requirement.
- Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences
Limited Choice courses will meet this requirement.
- Social Sciences
Major Required Courses and Limited Choice courses will meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for the degree. See the notes below for the specific courses for each transfer Institution and major. A minimum of 2.0 is required to meet degree requirements for General Education and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.) (For the full list of options, see [AA and AS Degree Electives](#))*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
ARTS 162	Type Communications	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 175	Creative Design and Publishing	3 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 200	Small Group Communication	3 / 3
COMM 240	Interpersonal Communication	3 / 3
COMM 260	Nonverbal Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
DMAC 120	Intro to Audio Production	4 / 4
DMAC 130	Intro to Video Production	4 / 4
DMAC 131	Digital Cinematography I	4 / 4
DMAC 132	Video Post-Production I	4 / 4
DMAC 246	Workshop: Video	2 / 2
EDUC 204	Educational Psychology	
EDUC 230	Intro to Special Education	3 / 3
GRMN 121 or JAPN 121 or SPAN 121	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
GRMN 122 or JAPN 122 or SPAN 122	Elementary German II Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4 4 / 4
JAPN 201 or SPAN 201	Intermediate Japanese I Intermediate Spanish I	4 / 4 4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
MKTG 200	Principles of Marketing	3 / 3
PHOT 111	Digital Photography I	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3

Course Code	Course Title	Credit / Billing Hours
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	3 / 3
STAT 170	Introduction to Statistics	4 / 4

Notes:

Students interested in preparing for freelance work choose 12-14 credits from ARTS 171, ARTS 173, ARTS 175, BUSN 118, MKTG 200, and PHOT 111.

DMAC 132 has limited transferability and should only be selected as noted below.

For future transfer to:

- Central Michigan University (Journalism BA) choose COMM 130 and 4 courses from the same foreign language: JAPN or SPAN 121, 122, 201, and 202.
- Central Michigan University (Journalism BS) choose COMM 130, PSYC 200, PSYC 202, PSYC 203, SOCL 120, and SOCL 260.
- Eastern Michigan University (Journalism and Media Studies) choose COMM 120 or COMM 130, COMM 280, DMAC 120, DMAC 130, DMAC 246, and PHOT 111.
- Eastern Michigan University (Communication and Theater Arts Secondary Certification) choose COMM 120 or COMM 130, COMM 200, COMM 240, COMM 280, EDUC 204, and EDUC 230.
- Ferris State University (Journalism and Professional Communication) choose DMAC 120, DMAC 130, DMAC 131, and DMAC 132.
- Grand Valley State University (Journalism) choose COMM 120, COMM 130, HIST 212, and STAT 170.
- Michigan State University (Journalism) choose ARTS 162 and 2 courses from the same language: GRMN or JAPN or SPAN 121 and 122.
- Western Michigan University (Journalism) choose COMM 130, COMM 200, COMM 240 or COMM 260, and 2 courses from the same language: GRMN or JAPN or SPAN 121 and 122.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
DMAC 141
ENGL 121 or ENGL 131
Limited Choice – Natural Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
DMAC 260 or ENGL 200 or ENGL 261 or JAPN 121 or SPAN 121 or THEA 110
MATH 119 or MATH 120 or STAT 170
Limited Choice - Natural Sciences

Semester III
COMM 270 – Milestone course
JRNL 151 – Milestone course
Limited Choice – Humanities and Fine Arts
Electives as needed for total credits

Semester IV
JRNL 254
Limited Choice – Social Science
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Juvenile Justice C.A.

Career Community: Public Service Careers

Curriculum Code: 0916

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate option is designed to provide entry-level skills for the person who wishes to enter the job market as a juvenile care worker at a public or private juvenile residential facility. Students may apply these credits toward completion of the Criminal Justice, Juvenile Specialization Associate in Applied Science degree (1475).

Milestone

Completion of CJUS 106 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Public Service Careers Program at the West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
CJUS 133	Juvenile Residential Services	3 / 3
CJUS 134	Probation and Parole	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3
CJUS 245	Report Writing/Crim Justice	3 / 3
CJUS 286	Juvenile Internship I	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 242	The Family: Addiction/ Violence	3 / 3
SOWK 101	Introduction to Social Work	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

35 credits / 35 billing hours

Recommended Course Sequence

Semester I
CJUS 101
CJUS 106 – Milestone course
CJUS 126
CJUS 135
PSYC 200
Limited Choice

Semester II
CJUS 133
CJUS 134
CJUS 245
CJUS 286
SOCL 120

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Kinesiology/Exercise Science A.A.S.

Career Community: Health Careers

Curriculum Code: 1639

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This curriculum is designed to prepare individuals for a career as a Fitness Leader, such as a certified Group Fitness Instructor, a certified Personal Trainer, or to transfer to a four-year college or university to pursue a baccalaureate degree in Exercise Science/Kinesiology. Upon completion of the AAS degree, individuals are prepared to take a Group Fitness Instructor certification exam as well as a Personal Trainer certification exam given by a National Commission for Certifying Agencies (NCCA) accrediting organization such as American Council on Exercise® (ACE), or American College of Sports Medicine® (ACSM). This curriculum includes course options from the Group Fitness Instructor Certificate of Completion as well as the Personal Trainer Certificate of Achievement.

Students are also prepared to pursue entry-level employment in the areas of recreation, fitness, and health careers. Opportunities for Group Exercise certification and Personal Training certification are available.

For students who intend to transfer to a four-year college or university to pursue a baccalaureate degree, completion of this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 145, or BIOL 201 and BIOL 202, with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

All courses must be completed with a minimum 2.0 grade to receive this degree. Some courses are offered only once a year. Review the recommended course sequence section of this pathway for course offering timeframes. To complete this degree in four semesters, students should follow the recommended course sequence.

Not all courses in this curriculum transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course and should select coursework indicated for that institution. General education and subject area requirements vary from one college or university to another.

Students planning to transfer to a four-year institution are encouraged to complete BIOL 201 and 202, rather than BIOL 145.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Kinesiology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 145 or BIOL 201 and BIOL 202	Intro Anatomy and Physiology Human Anatomy and Human Physiology	4 / 6 8 / 11
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 110 or COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or MATH 126 or MATH 151 or STAT 170	College Algebra Precalculus Calculus I Introduction to Statistics	4 / 4 5 / 5 4 / 4 4 / 4
PFFT 109	Introduction to Fitness	1 / 2
PFHW 163	Healthy Lifestyles	2 / 3
PFKN 170	Foundations of Kinesiology	3 / 3
PFKN 200	Exercise Physiology	3 / 3
PFKN 201	Exercise Physiology Lab	1 / 2
PFKN 208	Biomechanics	3 / 3
PFKN 250	Measurements in Kinesiology	3 / 4
PFKN 260	Growth and Motor Behavior	3 / 3
PFWT 112	Intro to Weight Training	1 / 2
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students planning to transfer choose BIOL 201 and BIOL 202, and MATH 120 or MATH 126 or MATH 151.

Non-transfer students may choose BIOL 145 and STAT 170.

For future transfer to:

- Central Michigan University (Athletic Training) choose BIOL 201 and BIOL 202, and COMM 120 or COMM 130 or ENGL 122 or ENGL 132, and STAT 170.
- Eastern Michigan University (Exercise Science) choose BIOL 201 and BIOL 202, and ENGL 122 or ENGL 132, and MATH 126.
- Oakland University (Exercise Science) choose BIOL 201 and BIOL 202, and ENGL 122 or ENGL 132, and MATH 126.

Major Required Courses, Limited Choice - Kinesiology – *Select 3 credits*

Course Code	Course Title	Credit / Billing Hours
CHSE 120	Medical Terminology	4 / 4
PFHW 123	Human Nutrition	3 / 3
PFHW 181	Stress Management	1 / 1
PFKN 106	Group Fitness Instructor Prep	3 / 4
PFKN 205	Sport & Exercise Psychology	3 / 3
PFKN 210	Athletic Training Principles	3 / 4
PFKN 270	Personal Trainer Preparation	4 / 5
PFKN 280	Kinesiology Internship	3 / 3
PHYS 221	Introductory Physics I	4 / 6

For future transfer to:

- Central Michigan University (Athletic Training) choose CHSE 120 or PFHW 123 or PFKN 210 or PHYS 221.
- Eastern Michigan University (Exercise Science) choose PFHW 123 or PHYS 221.
- Oakland University (Exercise Training) choose PFHW 123 or PHYS 221.

General Education – Transfer Degrees (MTA), Recommended Courses

Select courses as indicated for specific transfer institutions. These courses are preferred General Education courses listed on Transfer Articulation agreements. The recommended courses in each General Education category also meet Michigan Transfer Agreement (MTA) requirements. If no course is indicated, choose from the list of options under [General Education -Transfer Degrees \(MTA\)](#). A minimum grade of 2.0 is required for each General Education course.

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts – *Select two, each from a different discipline.*
HUMS 223, The Western World to 1500, 4 credits / 4 billing hours
HUMS 224, The Western World since 1500, 4 credits / 4 billing hours
PHIL 151, Intro to Logic & Critical Thinking, 4 credits / 4 billing hours
PHIL 152, Introduction to Ethics, 4 credits / 4 billing hours
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 68 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
ENGL 121 or ENGL 131
MATH 120 or MATH 126 or MATH 151 or STAT 170
PFFT 109
PFHW 163
PFKN 170

Semester II (Spring)
BIOL 145 or 201 – Milestone course
PFKN 250
PFKN 260
PSYC 200
Limited Choice – Kinesiology

Semester III (Fall)
BIOL 202 (if selected BIOL 201/202) – Milestone course
PFKN 208 (Fall offering only)
PFWT 112
SOCL 120
Limited Choice – Kinesiology (if needed)
MTA Humanities and Fine Arts

Semester IV (Spring)
CHEM 151
CHEM 161
COMM 110 or COMM 120 or COMM 130 or ENGL 122 or ENGL 132
PFKN 200 (Spring offering only)
PFKN 201 (Spring offering only)
MTA Humanities and Fine Arts

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Legal Studies A.B.

Career Community: Public Service Careers

Curriculum Code: 0101

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Pursue your path to studying law or train to be a paralegal. Paralegals generally work under the supervision of an attorney as authorized by law and adhere to recognized ethical standards and rules of professional responsibility. Paralegals investigate the facts; conduct interviews; perform legal research; analyze substantive and procedural laws; draft appropriate documents including: briefs, pleadings, and other forms. Paralegals possess strong technology and case management skills. A Legal Studies degree will prepare you for a variety of career opportunities in private law firms, governmental agencies, corporations, financial institutions, courts systems, legal aid organizations, and other industries. This program is approved by the American Bar Association (ABA). Paralegals are not authorized to engage in the unauthorized practice of law. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of LEGL 115 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Legal Studies Program Legal Specialty Courses Transfer Credit Policy*

The Lansing Community College Legal Studies Program may award transfer credit for designated, legal specialty courses on a case-by-case basis determined by the Legal Studies Program Director, subject to approval of the Dean of the Technical Careers Division. The current Legal Studies specialty courses are LEGL 115, LEGL 125, LEGL 207, LEGL 211, LEGL 212, LEGL 222, LEGL 223, LEGL 225, LEGL 228, LEGL 229 and LEGL 270. The following conditions apply to the transfer of these legal specialty courses:

1. Transfer credit may be awarded for substantially similar courses completed with a grade of “C” or higher in an ABA-approved, or other post-secondary academically accredited Legal Studies program. To be considered “substantially similar,” the course must have incorporated the same or similar topics and assignments as the LCC Legal Studies specialty course sought to be credited as evidenced by a catalog description, detailed syllabus, and course reference file.

2. No more than 9 semester credit hours of Legal Studies specialty course credit may be earned by transfer credit toward the Legal Studies Associate Degree or Legal Studies Post-Bachelor Certificate by transfer credit.
3. Transfer credit will not be awarded for LEGL 225 and LEGL 270.

*Notwithstanding the provisions detailed above: in no circumstance will a student be awarded a Legal Studies Associate degree or Certificate unless at least 9 hours of Legal Studies specialty course work has been completed at LCC in a synchronous class format.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Public Service Careers Program, West Campus Building, Room M127, telephone number 517-483-1570, or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
CITF 110	Intro Computer Info Systems	3 / 3
COMM 110	Communication in the Workplace	3 / 3
LEGL 115	Introduction to Legal Studies	3 / 3
LEGL 125	Legal Research and Writing I	3 / 3
LEGL 207	eDiscovery	3 / 3
LEGL 211	Tort Law	3 / 3
LEGL 212	Litigation Procedures	3 / 3
LEGL 217	Business Organizations	3 / 3
LEGL 222	Probate Law and Procedure	3 / 3
LEGL 223	Domestic Relations	3 / 3
LEGL 225	Legal Research and Writing II	3 / 3
LEGL 228	Computer Appl for the Law Ofc	3 / 3
LEGL 270	Paralegal Certification Prep	3 / 3

Major Required Courses, Limited Choice – 6 credits

Course Code	Course Title	Credit / Billing Hours
BUSN 150	Legal Issues: Start Small Busn	2 / 2
CHSE 117	Health Law and Ethics	2 / 2
CJUS 103	Criminal Law	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
LABR 204	Employment Law for Managers	3 / 3

Course Code	Course Title	Credit / Billing Hours
BUSN 150	Legal Issues: Start Small Busn	2 / 2
CHSE 117	Health Law and Ethics	2 / 2
LEGL 215	Business Law–Basic Principles	3 / 3
LEGL 229	Immigration Law	3 / 3
LEGL 280	Legal Studies Internship	3 / 3

Note: Students in this major may take CJUS 103 after successful completion of LEGL 115 rather than CJUS 101. To request an override to allow registration, contact the Public Service Careers Program.

General Education – Applied Degrees, Recommended Courses

A minimum grade of 2.0 is required for all General Education courses. (For the full list of options, see [General Education- Applied Degrees.](#))

- English Composition or Applied English – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
- English Composition (second course)/Communication – *Select one*
Major Required Courses meets this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences– *Select one*
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
- Mathematics or Applied Mathematics – *Select one*
MATH 119, Math – Applications for Living, 4 credits / 4 billing hours
MATH 120, College Algebra, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Science and Technology Lab – *Select one*
BIOL 120, Environmental Science, 4 credits / 6 billing hours
BIOL 121, Biol Foundation for Physiology, 4 credits / 6 billing hours

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 62 billing hours

Recommended Course Sequence

Semester I
Gen Ed – English Composition or Applied English
Gen Ed - Mathematics or Applied Mathematics
CITF 110
LEGL 115 – Milestone course
LEGL 211

Semester II
Gen Ed – Natural Sciences Lab or Applied Science and Technology Lab
COMM 110
LEGL 217
LEGL 223
Limited Choice

Semester III
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
LEGL 125
LEGL 222
LEGL 228
Limited Choice

Semester IV
LEGL 207
LEGL 212
LEGL 225
LEGL 270
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Legal Studies Post-Bachelor C.A.

Career Community: Public Service Careers

Curriculum Code: 0744

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Pursue your path to studying law or train to be a paralegal. Paralegals generally work under the supervision of an attorney as authorized by law and adhere to recognized ethical standards and rules of professional responsibility. Paralegals investigate the facts; conduct interviews; perform legal research; analyze substantive and procedural laws; draft appropriate documents including: briefs, pleadings, and other forms. Paralegals possess strong technology and case management skills. A Legal Studies degree will prepare you for a variety of career opportunities in private law firms, governmental agencies, corporations, financial institutions, courts systems, legal aid organizations, and other industries. This program is approved by the American Bar Association (ABA). Paralegals are not authorized to engage in the unauthorized practice of law. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

Completion of LEGL 115 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

Students following this curriculum must have proof of a bachelor's degree on file and entered on their official Lansing Community College transcript before beginning this curriculum.

A student must earn a minimum grade of 2.0 in all courses.

Legal Studies Program Legal Specialty Courses Transfer Credit Policy*

The Lansing Community College Legal Studies Program may award transfer credit for designated, legal specialty courses on a case-by-case basis determined by the Legal Studies Program Director, subject to approval of the Dean of the Technical Careers Division. The current Legal Studies specialty courses are LEGL 115, LEGL 125, LEGL 207, LEGL 212, LEGL 211, LEGL 222, LEGL 223, LEGL 225, LEGL 228, LEGL 229 and LEGL 270. The following conditions apply to the transfer of these legal specialty courses:

1. Transfer credit may be awarded for substantially similar courses completed with a grade of "C" or higher in an ABA approved, or other post-secondary academically accredited academic Legal Studies program. To be considered "substantially similar", the course

must have incorporated the same or similar topics and assignments as the LCC Legal Studies specialty course sought to be credited as evidenced by a catalog description, detailed syllabus, and course reference file.

2. No more than 9 semester credit hours of Legal Studies specialty course credit may be earned toward the Legal Studies Associate Degree or Legal Studies Post-Bachelor Certificate by transfer credit.
3. Transfer credit will not be awarded for LEGL 225 and LEGL 270.

*Notwithstanding the provisions detailed above: in no circumstance will a student be awarded a Legal Studies Associate degree or Certificate unless at least 9 hours of Legal Studies specialty course work has been completed at LCC in a synchronous class format.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Public Service Careers Program, West Campus Building, Room M127, telephone number 517-483-1570, or the West Campus Student Services, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
LEGL 115	Introduction to Legal Studies	3 / 3
LEGL 125	Legal Research and Writing I	3 / 3
LEGL 211	Tort Law	3 / 3
LEGL 212	Litigation Procedures	3 / 3
LEGL 217	Business Organizations	3 / 3
LEGL 222	Probate Law and Procedure	3 / 3
LEGL 223	Domestic Relations	3 / 3
LEGL 225	Legal Research and Writing II	3 / 3
LEGL 228	Computer Appl for the Law Ofc	3 / 3
LEGL 270	Paralegal Certification Prep	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 30 billing hours

Recommended Course Sequence

Semester I
LEGL 115 – Milestone course
LEGL 125
LEGL 211
LEGL 222
LEGL 228

Semester II
LEGL 212
LEGL 217
LEGL 223
LEGL 225
LEGL 270

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Literature A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0124

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year university to pursue a Bachelor degree in English Literature with a variety of concentrations. Students completing this degree will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan. This degree includes a set of courses common to all History, Humanities, and English majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of ENGL 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the English Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 208 or ENGL 220 or ENGL 290	Children's Literature Science Fiction Shakespeare	4 / 4 4 / 4 4 / 4
ENGL 255 or ENGL 256 or ENGL 266 or ENGL 267	American Lit to 1865 American Lit 1865 to Present British Lit to 1800 British Lit 1800 to Present	4 / 4 4 / 4 4 / 4 4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 261	Creative Writing I	3 / 3
ENGL 270	Gender and Literature	4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

For future transfer to:

- Central Michigan University (BA) choose ENGL 122 or ENGL 132.
- Central Michigan University (BS) choose ENGL 122 or ENGL 132 and STAT 170.
- Central Michigan University (Secondary Teaching) choose ENGL 122 or ENGL 132, ENGL 208, and MATH 120.
- Eastern Michigan University (Literature Concentration) choose ENGL 122 or ENGL 132.
- Eastern Michigan University (Children's Literature or Secondary Teaching Concentration) choose ENGL 122 or ENGL 132, ENGL 208, and MATH 120.
- Ferris State University (English) choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Ferris State University (Secondary Teaching) choose ENGL 122 or ENGL 132, ENGL 220, and MATH 119 or MATH 120.
- Grand Valley State University (Literature or Secondary Teaching) choose COMM 120 or 130 or ENGL 122 or ENGL 132, ENGL 255, ENGL 290, and MATH 120.

- Michigan State University (Literature or Popular Culture) choose COMM 130, ENGL 220, ENGL 255 or 267, and MATH 120.
- University of Michigan Ann Arbor (all concentrations) choose ENGL 122 or ENGL 132, ENGL 290, ENGL 255, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, ENGL 290, and MATH 119 or 120.
- Western Michigan University choose ENGL 122 or ENGL 132, ENGL 290, and MATH 119 or STAT 170.

Major Required Courses, Limited Choice - *Select one.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	4 / 4

Major Required Courses, Limited Choice - Natural Sciences –*Select two from different disciplines, one must be a lab course, as indicated for each major and transfer institution. If specific courses are not recommended for your institution and major, choose any two recommended courses from different disciplines or choose from [LCC General Education Transfer Degrees \(MTA\) Natural Sciences.](#)*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting, and Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120 and a non-BIOL course.
- Ferris State University choose BIOL 125 and a non-BIOL course.
- Michigan State University choose BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choices – Social Sciences - *Select two courses from different disciplines as indicated for each transfer institution and major. Students considering pursuing certification for secondary teaching are strongly encouraged to choose courses indicated for a Secondary Teaching major at the institution of the student's choice. If specific courses are not indicated, choose any recommended courses or choose from [LCC General Education Transfer Degrees \(MTA\) Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
COMM 270	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 201	Intro to Political Science	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Central Michigan University (Language and Literature BS) choose PSYC 200 and SOCL 120.
- Central Michigan University (Secondary Teaching) choose EDUC 220 and PSYC 200.
- Eastern Michigan University (Secondary Teaching) choose EDUC 204 and PSYC 200.
- Ferris State University (English) choose COMM 270 and a non-COMM course.
- Ferris State University (Secondary Teaching) choose EDUC 220 and PSYC 200.
- Grand Valley State University (Secondary Teaching) choose COMM 280 and EDUC 204.
- Michigan State University (Literature or Popular Culture) choose ANTH 270 and COMM 270 or 280.
- Michigan State University (Secondary Teaching) choose EDUC 204 and PSYC 200.
- University of Michigan Ann Arbor choose 2 from ANTH 270, COMM 270, ECON 201 or 202, GEOG 200, POLS 120, PSYC 200, or SOCL 120.

- University of Michigan Ann Arbor (Secondary Teaching) choose EDUC 204 and PSYC 200.
- University of Michigan Flint (Secondary Teaching) choose EDUC 220 and PSYC 200.
- Western Michigan University (Secondary Teaching) choose EDUC 220 and PSYC 200.

Elective Courses, Recommended Choices – *Select courses as needed to reach the minimum 60 total credits required for this degree. (For the full list of options see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 200	Small Group Communication	3 / 3
COMM 240	Interpersonal Communication	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
EDUC 230	Exceptional Learners	3 / 3
EDUC 280	Teacher Education Practicum	3 / 3
ENGL 124	Technical Writing	3 / 3
ENGL 127	Business Writing	3 / 3
ENGL 208	Children's Literature	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 240	The Film as Art	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 279	Prose Style	3 / 3
ENGL 290	Shakespeare	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HUMS 160	Mythology	4 / 4
JAPN 121	Intermediate Japanese I	4 / 4
JAPN 122	Elementary Japanese II	4 / 4
JAPN 201	Intermediate Japanese I	4 / 4
JAPN 202	Intermediate Japanese	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SPAN 121	Elementary Spanish I	4 / 4

Course Code	Course Title	Credit / Billing Hours
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

For future transfer to:

- Central Michigan University (Language and Literature BA) choose COMM 130, GRMN, JAPN or SPAN 121, and GRMN, JAPN or SPAN 122.
- Central Michigan University (Language and Literature BS) choose PSYC 202, PSYC 203, and SOCL 260.
- Central Michigan University (Secondary Teaching) choose COMM 130, EDUC 230, and ENGL 220 or ENGL 290.
- Eastern Michigan University (Literature) choose 3 from ENGL 255, 256, 266, and 267.
- Eastern Michigan University (Children's Literature) choose ARTS 102, 1 from ENGL 255 or 256 or 266 or 267, and HUMS 160.
- Eastern Michigan University (Secondary Teaching) choose EDUC 220, 230, and 280.
- Ferris State University (English) choose COMM 130 or COMM 200 or COMM 240, and 2 from ENGL 255 or 256 or 266 or 267.
- Ferris State University (Secondary Teaching) choose COMM 130 or COMM 240, ENGL 208, and PSYC 221.
- Grand Valley State University (Literature or Secondary Teaching) choose ENGL 256, GRMN or SPAN 121, and HUMS 160.
- Michigan State University (Literature) choose JAPN or SPAN 121, 122, and 201.
- Michigan State University (Secondary Teaching) choose EDUC 230 and GRMN or JAPN or SPAN 121 and 122.
- University of Michigan Ann Arbor (Literature) choose ENGL 267, SPAN 121 and 122.
- University of Michigan Flint (Literature or Secondary Teaching) choose ENGL 124, ENGL 279, and GRMN or SPAN 121.
- Western Michigan University (Literature or Secondary Teaching) choose 1 from ENGL 255 or 256 or 266 or 267, and 2 from GRMN or SPAN 121 and 122.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses and Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.

- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100 (if waived, substitute Career Community course)
ENGL 121 or ENGL 131
ENGL 200 – Milestone course
Limited Choice
Limited Choice – Natural Science

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ENGL 260
MATH 119 or MATH 120 or STAT 170
Limited Choice – Social Sciences

Semester III
ENGL 255 or ENGL 256 or ENGL 266 or ENGL 267
ENGL 261
Limited Choice – Natural Science
Elective

Semester IV
ENGL 208 or ENGL 220 or ENGL 290
ENGL 270
Limited Choice – Social Sciences
Elective

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Local Corrections Officer C.C.

Career Community: Public Service Careers

Curriculum Code: 1810

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate option is designed to provide entry level skills for the person who wishes to enter the job market as a Local Correctional Officer at a Sheriff Department or Local Detention Center. This curriculum meets the Michigan Coordinating and Training Council requirements. Students completing this certificate may use the credits towards the Criminal Justice, Corrections Associate in Applied Science Degree (1209). Students interested in working in State facilities should pursue the Correctional Officer Certificate of Completion (0840).

Milestone

Completion of CJUS 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Requirements for Admission to the Local Corrections Officer Academy

For further information, including career options, admission requirements for CJUS 272 and CJUS 273, course substitutions and waivers, etc., contact the Public Service Careers Program, West Campus Building, Room M127, telephone number (517) 483-1570.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CJUS 101	Intro to Criminal Justice	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3
CJUS 272	Local Corrections Academy I	5 / 5
CJUS 273	Local Corrections Academy II	3 / 5

Minimum Total Credit Hours

17 credits / 19 billing hours

Recommended Course Sequence

Semester I
CJUS 101
CJUS 131 – Milestone course
CJUS 135

Semester II
CJUS 272
CJUS 273

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Long-Term Care Nurse Aide C.C.

Career Community: Health Careers

Curriculum Code: 1025

Effective: Fall 2025 – Summer 2026

Purpose of the Major

This certificate curriculum will prepare an individual to be a nurse aide in a long-term care facility or home health care agency. This state-approved course will provide specific knowledge and skills required for a nurse aide to safely function in a long-term care setting. Upon successful completion of this course, the student is qualified to take the State Competency Evaluation Nurse Aide Examination to become a Certified Nursing Assistant (CNA).

Additional Information

Students must complete CHSE 108 with a minimum grade of 2.5 to receive this certificate.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 108	Long-Term Care Nurse Aide	4 / 6.5

Minimum Total Credit Hours

4 credits / 6.5 billing hours

Recommended Course Sequence

Semester I
CHSE 108

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Machine Tool Technology C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1470

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed for an apprentice, pre-apprentice, or person interested in advancing his/her skill set in the machinist or tool & die trade. Technical math, blueprint reading, knowledge of the Machinery Handbook, and metallurgy are just some of the skills and knowledge that are necessary for this type of work. Ideally, this curriculum should be taken concurrently with an industry-based work experience or apprenticeship or in preparation for an apprenticeship as a machinist or tool and die maker.

Milestone

Completion of METM 108 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 110	Mechanical CAD Drafting I	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
TECH 102	General Industry Safety	2 / 3

Major Required Courses, Limited Choice – *Select four*

Course Code	Course Title	Credit / Billing Hours
MATH 115	Technical Mathematics	4 / 4
METD 111	Mechanical CAD Drafting II	4 / 6
METD 130	Geometric Dimension/Tolerance	4 / 6
METD 150	Industrial Blueprint Reading	3 / 3
METD 220	Basic Unigraphics/NX	4 / 6
METM 150	Advanced CNC Machining	4 / 6
METM 220	Basic Mastercam	4 / 6
METS 140	Rigging	3 / 4.5
WELD 103	Combination Welding	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 44.5 billing hours

Recommended Course Sequence

Semester I
TECH 102
Limited Choice
Semester II
METD 110
METM 108 – Milestone course
Semester III
METM 112
METM 190
Semester IV
Limited Choice
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Magnetic Resonance Imaging Technology A.A.S.

Career Community: Health Careers

Curriculum Code: 1632

Effective: Summer 2025 – Summer 2028

Purpose of the Major

This associate degree program is intended for individuals who are not already certified technologists with the American Registry of Radiologic Technologist (ARRT). The curriculum provides didactic hybrid distance education, laboratory simulation, and clinical experience to teach the essential content needed to begin a career in Magnetic Resonance Imaging. Graduates will be eligible to take the national registry examination administered by ARRT.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

Milestone

In addition to the required General Education courses in Math and English, completion of MRIT 201, MRIT 220, and MRIT 229 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The MRI (Magnetic Resonance Imaging) Consortium Program through the Michigan Workforce Training and Education Collaborative of which LCC is a member, has been developed to be consistent with standards and requirements of the American Society of Radiologic Technologists (ASRT), the American College of Radiology (ACR), and the American Registry of Radiologic Technologists (ARRT).

Students must complete all non-MRIT courses with a minimum 2.5 prior to submitting their application for Program Approval. First semester MRIT courses require Program Approval. Applications must be submitted by February 1 and are available by contacting the Program Director of Imaging Technology at 517-483-1410. Once Program Approval is received, students must complete each MRIT course with a minimum 2.5 to progress to the next semester and meet graduation requirements.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career

options, course substitutions and waivers, etc., contact the Medical Imaging Program, Health and Human Services Building, Room 108, telephone number 517-483-1410.

Major Required Courses for Admission – *Minimum 2.5 grade required. BIOL 201 and 202 also satisfies the General Education Natural Sciences Lab or Applied Sciences and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5

Major Required Courses for Admission, Limited Choice – English Composition - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Courses for Admission, Limited Choice – English Composition (second course)/Communication - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Courses for Admission, Limited Choice – Mathematics - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education Mathematics or Applied Mathematics requirement. (Any course from the General Education Mathematics College Algebra category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Major Required Course for Admission, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one as recommended below or select one from the full list of [General Education - Applied Degree](#), Humanities and Fine Arts or Social Sciences or Applied Social Sciences courses. Minimum 2.5 grade required. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
SOCL 120	Introduction to Sociology	4 / 4

Major Required Courses for Admission, Limited Choice - *Select one. Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5

Minimum Total Credit Hours for Admission

27 credits / 31 billing hours

Major Required Courses – *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
MRIT 200	Professional Prospectus	1 / 0*
MRIT 201	Computer Apps/Medical Imaging	3 / 0*
MRIT 220	MR Physics I	3 / 0*
MRIT 222	MR Physics II	3 / 0*
MRIT 229	Applied Sectional Anatomy	3 / 0*
MRIT 230	MR Procedures and Pathophys I	3 / 0*
MRIT 232	MR Procedures and Pathophys II	3 / 0*
MRIT 240	MRI Image Analysis	3 / 0*
MRIT 260	MRI Pre-Clinical Preparation	3 / 0*
MRIT 261	Clinical Practice I	3 / 0*
MRIT 262	Clinical Practice II	3 / 0*
MRIT 263	Clinical Practice III	3 / 0*
MRIT 295	MRI Certification Exam Prep	3 / 0*

[General Education – Applied Degrees Courses](#)

Major Required Courses for Admission will meet this requirement.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences

- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Sciences and Technology Lab

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 31 billing hours*

*MRIT courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in the billing hours. Please contact the Radiologic Technology Program Director at 517-483-1410 for current tuition rates.

Recommended Course Sequence for Admission

Semester I
BIOL 201
COMM 110, 120, 130, or 240
ENGL 121, 122, 131, or 132
PHYS 120 or 200

Semester II
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
BIOL 202
MATH 120 (or other Gen Ed Mathematics College Algebra course), STAT 170 or 215

Required Course Sequence – Courses must be completed in the semester listed.

Semester III (Summer 2025)
MRIT 200
MRIT 229 – Milestone course
MRIT 260

Semester IV (Fall 2025)
MRIT 201 – Milestone course
MRIT 220 – Milestone course
MRIT 230
MRIT 261

Semester V (Spring 2026)
MRIT 222
MRIT 232
MRIT 240
MRIT 262

Semester VI (Summer 2026)
MRIT 263
MRIT 295

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Magnetic Resonance Imaging Technology C.A.

Career Community: Health Careers

Curriculum Code: 1602

Effective: Summer 2025 – Fall 2026

Purpose of the Major

The MRI Certificate of Achievement is intended for registered/certified radiologic technologists with the American Registry of Radiologic Technologists® (ARRT). As of January 1, 2015, these registered/certified technologists must also already have an associate degree or higher. The curriculum provides didactic hybrid distance education, laboratory simulation, and clinical experience to teach the essential content needed to begin a career in Magnetic Resonance Imaging. Successful completion of the program qualifies students for examination by the ARRT in Magnetic Resonance Imaging.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

Milestone

Completion of MRIT 201, MRIT 220, and MRIT 229 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The MRI (Magnetic Resonance Imaging) Consortium Program through the Michigan Workforce Training and Education Collaborative of which LCC is a member, has been developed to be consistent with standards and requirements of the American Society of Radiologic Technologists (ASRT), the American College of Radiology (ACR), and the American Registry of Radiologic Technologists (ARRT).

First semester MRIT courses require Department Approval. Applications must be submitted by February 1 and are available by contacting the Imaging Technology Program Director at 517-483-1410. Once Department Approval is received, students must complete each MRIT course with a minimum grade of 2.5 to progress to the next semester and meet graduation requirements.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Medical Imaging Program, Health and Human Services Building, Room 108, telephone number 517-483-1410.

Major Required Courses - *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
MRIT 200	Professional Prospectus	1 / 0*
MRIT 201	Computer Apps/Medical Imaging	3 / 0*
MRIT 220	MR Physics I	3 / 0*
MRIT 222	MR Physics II	3 / 0*
MRIT 229	Applied Sectional Anatomy	3 / 0*
MRIT 230	MR Procedures and Pathophys I	3 / 0*
MRIT 232	MR Procedures and Pathophys II	3 / 0*
MRIT 240	MRI Image Analysis	3 / 0*
MRIT 260	MRI Pre-Clinical Preparation	3 / 0*
MRIT 261	Clinical Practice I	3 / 0*
MRIT 262	Clinical Practice II	3 / 0*
MRIT 263	Clinical Practice III	3 / 0*
MRIT 295	MRI Certification Exam Prep	3 / 0*

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

37 credits / 0* billing hours

*MRIT courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in billing hours. Please contact the Medical Imaging Program Director at telephone number 517-483-1410 for current tuition rates.

Required Course Sequence

Semester I (Summer 2025)
MRIT 200
MRIT 229 – Milestone course
MRIT 260
Semester II (Fall 2025)
MRIT 201 – Milestone course
MRIT 220 – Milestone course

Semester II (Fall 2025)
MRIT 230
MRIT 261

Semester III (Spring 2026)
MRIT 222
MRIT 232
MRIT 240
MRIT 262

Semester IV (Summer 2026)
MRIT 263
MRIT 295

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Management C.A.

Career Community: Business

Curriculum Code: 0249

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Certificate holders may improve their opportunities for advancement in this or a related area. The Certificate of Achievement is often useful in conjunction with another degree in professions such as health careers or computers. Additional education enhances an individual's employment opportunities. Students may complete this certificate as part of the Management and Leadership Associate of Business degree.

Milestone

Completion of MGMT 223 or MGMT 225 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
LABR 200	Intro to Labor Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 224	Human Resource Management	3 / 3
MGMT 228	Organization Behavior	3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3

Major Required Courses, Limited Choice – Select two

Course Code	Course Title	Credit / Billing Hours
LEGL 215	Business Law-Basic Principles	3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 300	Leading for Possibility	3 / 3

Note: Students considering completing the Management and Leadership Associate of Business degree should choose LEGL 215 and MGMT 237.

Major Required Courses, Limited Choice – Communication and Writing – Select one

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
ENGL 121	Composition I	4 / 4
ENGL 127	Business Writing	3 / 3
ENGL 131	Honors Composition I	4 / 4

Note: Students considering completing the Management and Leadership Associate of Business degree should choose ENGL 121 or ENGL 131.

Major Required Courses, Limited Choice - Management – Select one

Course Code	Course Title	Credit / Billing Hours
MGMT 223	Supervisory Skills	3 / 3
MGMT 225	Principles of Mgmt/Leadership	3 / 3

Note: Students considering completing the Management and Leadership Associate of Business degree should choose MGMT 225.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 33 billing hours

Recommended Course Sequence

Semester I
BUSN 118
MGMT 224
MGMT 234
MGMT 223 or 225 – Milestone course
Limited Choice

Semester II
LABR 200
MGMT 200
MGMT 228
MGMT 231
Limited Choice
Limited Choice – Communication and Writing

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Management and Leadership A.B.

Career Community: Business

Curriculum Code: 0245

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of Management on completion of the Associate of Business degree. A manager leads from all levels of the organization. A manager plans, organizes, delegates, and controls projects from start to finish. The role cuts across all areas of business and organizational life and has as its central purpose the increase of resources: personnel, money, machines, and materials. Managers encourage, coordinate, and lead to achieve company goals. Graduates of this degree may qualify for entry-level positions. Addition of a technical or business specialty increases one's employability. Not all courses in this program transfer to all institutions. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for the Business, Enhanced AB, Management and Leadership Pathway include Davenport University, Eastern Michigan University, Ferris State University (Business Administration – Professional Track), Northwood University, Oakland University, and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of MGMT 225 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required for General Education courses and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
BUSN 201	International Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LABR 200	Intro to Labor Relations	3 / 3
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 150	Managing Customer Relations	3 / 3
MGMT 200	Creative Thinking for Business	3 / 3
MGMT 224 or MGMT 337	Human Resource Management Strategic Human Resource Mgmt	3 / 3 3 / 3
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 227	Training/Development for Busn	3 / 3
MGMT 228 or MGMT 304	Organization Behavior Organization Development	3 / 3 3 / 3
MGMT 231	Developing and Leading Teams	3 / 3
MGMT 237	Managing/Continual Improvement	3 / 3
MGMT 280 or MGMT 345	Mgmt/Leadership Internship Strategic Management	3 / 3 3 / 3
MKTG 200	Principles of Marketing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University choose COMM 110 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Ferris State University choose COMM 130 and STAT 170.
- Northwood University and Oakland University choose MATH 120, MGMT 304 and MGMT 345.
- Siena Heights University (Business Administration) choose STAT 170.

Major Required Courses – Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

- Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or any course from [LCC General Education, Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or 125 or CHEM 135 or GEOG 221 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

65 credits / 65 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
ENGL 121 or ENGL 131
MGMT 225 – Milestone course
MKTG 200
Semester II
MATH 120 or STAT 170
MGMT 224 or MGMT 337
MGMT 237
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester III
ECON 201
LEGL 215
MGMT 200
MGMT 228 or MGMT 304

Semester IV
BUSN 201
COMM 110 or COMM 130
LABR 200
MGMT 227

Semester V
ACCG 210
MGMT 150
MGMT 231
MGMT 280 or MGMT 345

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Manufacturing Engineering Technology A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1359

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program prepares individuals to apply technical skills and advanced computer software to the manufacturing of machined components relating to a broad range of industries. Students receive instruction in manual machine tools, computer numerical control (CNC) machine programming and operation, computer-aided manufacturing (CAM) design/programming, manufacturing processes, metrology, metallurgy, geometric dimensioning and tolerancing, three-dimensional engineering design graphics, and parametric modeling. Employment possibilities include engineering firms and manufacturing companies in the automotive, defense, special machinery, and medical components industries to name a few. Students completing this pathway would also qualify for the CNC Machine Technology Certificate of Achievement.

Milestone

In addition to the required General Education courses in Math and English, completion of METD 130 and METM 112 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or	Communication in the Workplace	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METD 100	Basic Mechanical Drafting	3 / 4
METD 110	Mechanical CAD Drafting I	4 / 6
METD 130	Geometric Dimension/Tolerance	4 / 6
METD 220	Basic Unigraphics/NX	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 150	Advanced CNC Machining	4 / 6
METM 195	Quality/Metrology/Inspection	4 / 6
METM 220	Basic Mastercam	4 / 6
METM 221	Advanced Mastercam	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6
TECH 102	General Industry Safety	2 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional](#)

[Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 85 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
METD 100
METM 108
TECH 102

Semester II
METD 110
METD 130 – Milestone course
METM 112 – Milestone course
METM 220

Semester III
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
METM 150
METM 195
METM 221
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or COMM 132
METD 220
METS 115
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Marketing A.B.

Career Community: Business

Curriculum Code: 0204

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This major is designed for students wishing to work in the field of Marketing on completion of the Associate of Business degree. Marketing is the set of activities that aims to satisfy the customer while making a profit. It is concerned with determining need and meeting demand by making goods and services known, available, and affordable. Entry-level personnel may require time in sales before internal promotion into marketing management positions. Graduates of this program are prepared to work in nearly every type of business and organization today. Traditional product marketing management is giving ways to areas like nonprofit organization marketing, leading to a diverse job opportunity picture. Not all courses in this program transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and complete the coursework for a Business, Enhanced AB degree. The Business, Enhanced AB option allows students to transfer additional credits toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's. Institutions accepting coursework for Business, Enhanced AB, Marketing track degrees include Davenport University, Eastern Michigan University, Ferris State University (Business Administration – Professional Track), Northwood University, Oakland University, and Siena Heights University.

Milestone

In addition to the required General Education courses in Math and English, completion of MKTG 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum grade of 2.0 is required to meet General Education requirements and for transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ACCG 210	Principles of Financial Accg	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
ECON 201	Principles of Economics - Micro	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
LEGL 215	Business Law – Basic Principles	3 / 3
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 200	Principles of Marketing	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3

Notes:

ACAD 100 may be waived when students meet College-approved waiver criteria.

For future transfer to:

- Central Michigan University choose COMM 110 and STAT 170.
- Davenport University choose COMM 110 and STAT 170.
- Eastern Michigan University choose STAT 170.
- Ferris State University choose COMM 130 and STAT 170.
- Northwood University and Oakland University choose MATH 120.
- Siena Heights University (Bachelor of Business Administration major) choose STAT 170.

Major Required Courses, Limited Choice – Select one

Course Code	Course Title	Credit / Billing Hours
ACCG 211	Principles of Managerial Accg	4 / 4
MKTG 235	Marketing Internship	3 / 3

Note: For future transfer, choose ACCG 211.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

- Select one lab course as indicated for each transfer institution. If a specific course is not indicated for the institution you are considering, or if transfer is not your goal, select any recommended course or from [LCC General Education - Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#).

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 200	World Regional Geography	4 / 4
GEOG 206	Physical Geography	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Eastern Michigan University choose ASTR 201 or BIOL 120 or 125 or CHEM 135 or GEOG 221 or ISCI 131.
- Northwood University choose BIOL 120.
- Siena Heights University choose BIOL 120 or CHEM 135 or PHYS 120.

General Education – Applied Degree Courses, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Science or Applied Social Science
Major Required Courses meet this requirement.

- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credits / 62 billing hours

Recommended Course Sequence

Semester I
ACAD 100
BUSN 118
ENGL 121 or ENGL 131
MKTG 119
MKTG 200 – Milestone course

Semester II
ECON 201
LEGL 215
MATH 120 or STAT 170
MGMT 225
MKTG 120

Semester III
ACCG 210
MGMT 234
MKTG 140
MKTG 204
MKTG 210

Semester IV
ACCG 211 or MKTG 235
COMM 110 or COMM 130
MKTG 130
MKTG 229
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Marketing C.A.

Career Community: Business

Curriculum Code: 0225

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Certificate holders may improve their opportunities for advancement in this or a related area. Additional education enhances an individual's employment opportunities. Students in this curriculum learn the basics of marketing in relation to other business operations. Students may complete this certificate as part of the Marketing Associate of Business degree.

Milestone

Completion of MKTG 200, with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
MKTG 120	Sales	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Major Required Courses, Limited Choice–Communication/Composition – *Select one*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
ENGL 121	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4

Note: Students considering completing the Marketing Associates of Business degree should choose ENGL 121 or ENGL 131.

Major Required Courses, Limited Choice - Marketing - *Select four courses, minimum of twelve credits*

Course Code	Course Title	Credit / Billing Hours
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 204	Marketing Research	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 30 billing hours

Recommended Course Sequence

Semester I
BUSN 118
MKTG 140
MKTG 200 – Milestone course
Limited Choice – Composition and Communication
Limited Choice – Marketing

Semester II
MKTG 120
MKTG 130
Limited Choice – Marketing
Limited Choice – Marketing
Limited Choice - Marketing

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Massage Therapy C.C.

Career Community: Health Careers

Curriculum Code: 1826

Effective: Fall 2025 – Summer 2028

Purpose of the Major

The Massage Therapy Program prepares an individual in the field of massage and bodywork. Massage therapists may be employed in private practice or in a variety of health care settings, spas, and exercise facilities. This program is accredited by the Commission on Massage Therapy Accreditation (COMTA), 2101 Wilson Blvd, Suite 302. Arlington, VA 22201. The Program is also a school member of the American Massage Therapy Association (AMTA). Successful completion of this program prepares an individual for testing through the Massage and Bodywork Licensing Exam (MBLEx).

Milestone

Completion of MSGE 131, MSGE 132A, and MSGE 132B with a 2.5 or higher are key components for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must complete all required courses with a minimum grade of 2.5 to receive this Certificate of Completion.

The Massage Therapy Program is a cohort program. Students must earn a minimum grade of 2.5 in every program course to continue in the Massage Therapy Program. If a student does not earn a minimum grade of 2.5 in a course, they may not progress to the next semester in the pathway. They must wait until a new cohort is at the same point in the program and, if seats are available, join that cohort to retake the course(s) in which they did not receive a minimum grade of 2.5, and proceed with the courses that they have not yet taken. Students will remain with that cohort until graduation. If a gap of more than 2 years passes between coursework, before a student can continue in the program, the student will need to pass a practical exam demonstrating that they have maintained hands-on skills.

Students who are interested in pursuing an associate degree after completing this certificate may complete BIOL 145, or BIOL 201 and BIOL 202, in lieu of MSGE 132A and MSGE 132B. Upon completion, students wishing to pursue an associate degree should declare the Allied Health A.A.S. major. Courses in this certificate program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Massage Therapy Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
MSGE 131	Massage I	2.13 / 4
MSGE 132A	Anatomy/Physiology Massage I	2.13 / 4
MSGE 132B	Anatomy/Physiology Massage II	1.06 / 2
MSGE 137	Medical Terminology in Massage	1.06 / 2
MSGE 139A	Pathology for Massage I	.53 / 1
MSGE 139B	Pathology for Massage II	.53 / 1
MSGE 141	Massage Clinic I	1.33 / 2.5
MSGE 151B	Event Massage	.80 / 1.5
MSGE 151D	Special Populations	.80 / 1.5
MSGE 231	Massage II	2.13 / 4
MSGE 232	Massage III	2.13 / 4
MSGE 241	Massage Clinic II	1.33 / 2.5
MSGE 242	Massage Clinic III	1.60 / 3
MSGE 254	Busn App for Massage	1.10 / 2
MSGE 256	Clinical Assess for Massage	1.06 / 2
MSGE 258	Career Longevity	1.06 / 2

Minimum Total Credit Hours

20.78 credits / 39 billing hours

Required Course Sequence – Daytime Cohort

Semester I (Fall 2025)
MSGE 131 – Milestone course
MSGE 132A – Milestone course
MSGE 137
MSGE 139A
MSGE 151B
MSGE 258
Semester II (Spring 2026)
MSGE 132B – Milestone course
MSGE 139B
MSGE 141

Semester II (Spring 2026)
MSGE 231
MSGE 241

Semester III (Summer 2026)
MSGE 151D
MSGE 232
MSGE 242
MSGE 254
MSGE 256

Required Course Sequence – Evening Cohort

Semester I (Spring 2026)
MSGE 131 – Milestone course
MSGE 132A – Milestone course
MSGE 137
MSGE 139A
MSGE 151B
MSGE 258

Semester II (Summer 2026)
MSGE 132B – Milestone course
MSGE 139B
MSGE 141
MSGE 231
MSGE 241

Semester III (Fall 2026)
MSGE 151D
MSGE 232
MSGE 242
MSGE 254
MSGE 256

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mathematics A.S.

Career Community: Science and Mathematics

Curriculum Code: 1620

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year university to pursue a Bachelor's of Science degree in Mathematics with a variety of concentrations. Students completing this degree will also satisfy Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). This degree includes a set of courses common to all Science and Mathematics majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of MATH 151 and MATH 152 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Mathematics Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
CPSC 101	Intro to Computer Science	3 / 3
CPSC 230	Algorithms and Computing w/C++	4 / 4
CPSC 260	Computer Science Structures	4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4
MATH 254	Intro to Differential Equation	4 / 4
MATH 260	Linear Algebra	4 / 4
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHYS 251	Physics I with Calculus	5 / 7

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

CPSC 260 is only offered in Spring semester.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select one course, of a different discipline than PHIL, from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

Major Required Courses, Limited Choice – Social Sciences - *Select two courses from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#). Courses must be from different disciplines.*

Notes:

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select PSYC 200 and EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) choose PSYC 200.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for an associate degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

61 credits / 65 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
MATH 151 – Milestone course
PHIL 151
Limited Choice – Social Sciences

Semester II
CHEM 151
CHEM 161
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
CPSC 101
MATH 152 – Milestone course

Semester III
CPSC 230
MATH 253
PHYS 251
Limited Choice – Social Sciences

Semester IV
CPSC 260
MATH 254
MATH 260
Limited Choice – Humanities and Fine Arts

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mechanical Systems A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 0173

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Machine maintenance technicians are involved with the repair, maintenance, and installation of industrial equipment. They repair the machinery of industry, solving mechanical problems. The skills necessary for this type of work are many and varied: critical thinking, problem solving, mechanics, math and physics are but a few. Maintenance technicians also need to know how to diagnose hydraulic problems, perform preventative maintenance procedures, and be able to work well with others. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of METD 150 and METM 108 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. Either of these courses will fulfill the prerequisite for the ELTE and METS courses.

Students may substitute ELTE 129 and ELTE 130 for ELTE 131.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses - *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or	Communication in the Workplace Dynamics of Communication	3 / 3 3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ELTE 110	Practical Electricity	4 / 6
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ELTE 131	Machine Controls I	4 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METD 150	Industrial Blueprint Reading	3 / 3
METM 108	Machine Tool Operations	4 / 6
METS 110	Mechanical Power Transmissions	4 / 6
METS 120	Industrial Pneumatics	4 / 6
METS 130	Industrial Hydraulics	4 / 6
METS 140	Rigging	3 / 4.5
METS 160	Introduction to Robotics	3 / 4.5
METS 210	Lubrication and Bearings	4 / 6
METS 250	Gen. Prevent/Predictive Maint	3 / 4.5
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education - Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

63 credits / 84.5 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ELTE 110
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
METD 150 – Milestone course
METS 120
TECH 102

Semester II
ELTE 131
METS 110
METS 130
METS 160

Semester III
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
METM 108 – Milestone course
METS 210
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
METS 140
METS 250
WELD 103
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mechanical Systems C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0147

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This program provides technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of tools, equipment and machines. It prepares an individual for an entry-level position.

Milestone

Completion of METD 150 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for the ELTE and METS courses.

Students may substitute ELTE 129 and ELTE 130 for ELTE 131.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 131	Machine Controls I	4 / 5
MATH 115	Technical Mathematics	4 / 4
METD 150	Industrial Blueprint Reading	3 / 3
METS 110	Mechanical Power Transmissions	4 / 6
METS 120	Industrial Pneumatics	4 / 6
METS 130	Industrial Hydraulics	4 / 6

Course Code	Course Title	Credit / Billing Hours
METS 160	Introduction to Robotics	3 / 4.5
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 43.5 billing hours

Recommended Course Sequence

Semester I
ELTE 110
MATH 115
METD 150 – Milestone course
METS 120
TECH 102

Semester II
ELTE 131
METS 110
METS 130
METS 160

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mechatronics - Multi-Skilled Maintenance Technology A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 1780

Effective: Fall 2025– Summer 2030

Purpose of the Major

A Mechatronics—Multi-Skilled Maintenance Technician will have knowledge of electrical, electronic, computer, mechanical, fluid power, robotic and programmable logic controller systems. Mechatronics Technicians install, maintain, troubleshoot, test, and repair technologically diverse equipment in industries such as manufacturing, aerospace, automotive, medical, material processing, consumer products, and defense systems.

Milestone

In addition to the required General Education courses in Math and English, completion of ELTE 110, METD 150, and METS 125 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for the ELTE and METS courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – *A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or	Communication in the Workplace	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 260 or ENGL 122 or ENGL 132	Nonverbal Communication Composition II Honors Composition II	3 / 3 4 / 4 4 / 4
ELTE 110	Practical Electricity	4 / 6
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
ELTE 260	Programmable Controllers I	4 / 6
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METD 150	Industrial Blueprint Reading	3 / 3
METM 108	Machine Tool Operations	4 / 6
METS 110	Mechanical Power Transmissions	4 / 6
METS 125	Intro to Hydraulics/Pneumatics	4 / 6
METS 145	Automated Systems	3 / 4.5
METS 160	Introduction to Robotics	3 / 4.5
METS 250	Gen. Prevent/Predictive Maint	3 / 4.5
METS 260	Advanced Robotics Capstone	3 / 4.5
TECH 102	General Industry Safety	2 / 3
WELD 110	Gas Metal Arc Welding	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	5 / 7
METM 190	Metallurgy and Heat Treatment	4 / 6
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional](#)

[Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 86 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ELTE 110 – Milestone course
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
METD 150 – Milestone course
METS 160
TECH 102

Semester II
ELTE 131
ELTE 132 (Second 8 weeks)
METM 108
METS 125 – Milestone course
METS 145

Semester III
ELTE 260
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
METS 110
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
METS 250
METS 260
WELD 110
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Medical Assistant C.A.

Career Community: Health Careers

Curriculum Code: 1811

Effective: Fall 2025 – Summer 2027

Purpose of the Major

The purpose of this program is to produce educated, highly skilled, credentialed medical assistants to meet the needs of our community in its many ambulatory care settings. This three-semester program is designed for each student to successfully achieve all of the competencies listed on the American Medical Technologists (AMT) Medical Assistant Educational Review Board (MAERB) Master Competency list. The focus is on credentialing requirements, including 160 hours of practicum which prepares the student for gainful employment. Upon successful completion of the certificate of achievement students are eligible to take the Registered Medical Assistant exam to become nationally credentialed.

Milestone

Completion of MEDA 110A, MEDA 110B, MEDA 156A, and MEDA 156B with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to progress to the next semester and receive this certificate.

NCHE 102, AHA BLS Provider CPR, is a co-requisite requirement for MEDA 166. It is a 5-hour non-credit seminar course, which is flat-rated and not covered by financial aid.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Medical Assistant Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904. Students should also visit the Health and Human Services Division website for more information.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
MEDA 110A	Intro MA Med Terms & Patho I	2.5 / 2.5
MEDA 110B	Intro MA Med Terms & Patho II	2.5 / 2.5
MEDA 126A	MA Administrative Skills I	2.5 / 3

Course Code	Course Title	Credit / Billing Hours
MEDA 126B	MA Administrative Skills II	2.5 / 3
MEDA 135	MA Pharmacology & Med Math	2 / 2
MEDA 145	Legal & Ethical Concepts	2 / 2
MEDA 156A	MA Clinical Procedures IA	3.5 / 5.5
MEDA 156B	MA Clinical Procedures IB	3.5 / 5.5
MEDA 166	MA Clinical Procedures II	5 / 7
MEDA 175	MA Certification Review	3 / 3
MEDA 177A	MA Practicum Immersion I	1 / 1
MEDA 177B	MA Practicum Immersion II	2 / 2

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

32 credits / 39 billing hours

Required Course Sequence

Semester I (Fall 2025)
MEDA 110A – Milestone course
MEDA 110B – Milestone course
MEDA 135
MEDA 156A – Milestone course
MEDA 156B – Milestone course

Semester II (Spring 2026)
MEDA 126A
MEDA 126B
MEDA 145
MEDA 166
NCHE 102

Semester III (Summer 2026)
MEDA 175
MEDA 177A
MEDA 177B

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Medical Insurance Billing and Coding C.C.

Career Community: Health Careers

Curriculum Code: 1488

Effective: Fall 2025 – Summer 2027

Purpose of the Major

This curriculum introduces the student to medical insurance billing, diagnostic and procedure coding for physician and facilities billing as well as comprehensive billing directions for commercial insurances and worker's compensation. Students will also learn to record charges/payments/ information; schedule appointments; ICD-10-CM (International Classification of Diseases) and CPT (Current Procedural Terminology) coding; produce claim forms and patient statements; submit claims electronically; and build office databases. This Three-Semester Cohort program begins in the fall and is completed in one year. Upon successful completion of the program, students are eligible to take various billing and coding certification exams.

Milestone

Completion of CHSE 123 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

To receive this Certificate of Completion, students must complete CHSE 120, CHSE 123, CHSE 124, CHSE 125, CHSE 127, and CHSE 131 with a minimum grade of 2.5, and must complete CHSE 133 with a Pass (P) grade.

Upon completion, students wishing to pursue an associate degree should declare the Allied Health A.A.S. major. Courses in this certificate program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Programs, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 120	Medical Terminology	4 / 4
CHSE 123	Medical Ins Billing/Coding I	4 / 4
CHSE 124	Medical Ins Billing/Coding II	4 / 4
CHSE 125	Comp-Med Ins Billing/Coding	2 / 2
CHSE 127	Medical Ins Billing/Coding III	3 / 3
CHSE 131	Electronic Hlth Records Intro	2 / 2
CHSE 133	Med Bill/Code Cert Exam Prep	2 / 2

Minimum Total Credit Hours

21 credits / 21 billing hours

Required Course Sequence

Semester I (Fall)
CHSE 120
CHSE 123 – Milestone course
CHSE 131
Semester II (Spring)
CHSE 124
CHSE 125
CHSE 127
Semester III (Summer)
CHSE 133

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Microsoft Office Specialist C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 0841

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Completion of this certificate demonstrates competency in Microsoft Office programs and prepares students for the Microsoft Certified Applications Specialist (MCAS) exams. Preparation is included for MCAS exams for Word, Excel, Access, PowerPoint and Outlook. This certificate can be completed entirely online. Students completing this certificate may use the credits towards the Computer Support Specialist Associate of Business Degree (0713).

Milestone

Completion of CITA 115 and CITA 119 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITA 115	Microsoft PowerPoint	3 / 3
CITA 119	Microsoft Word	3 / 3
CITA 126	Microsoft Excel	3 / 3
CITA 133	Microsoft Access Database	3 / 3
CITA 140	Microsoft Outlook	3 / 3
CITA 219	Advanced Microsoft Word	3 / 3
CITA 226	Microsoft Excel–Advanced	3 / 3

Minimum Total Credit Hours

21 credits / 21 billing hours

Recommended Course Sequence

Semester I
CITA 115 – Milestone course
CITA 119 – Milestone course
CITA 126
CITA 133
Semester II
CITA 140
CITA 219
CITA 226

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mid-Michigan Police Academy C.C.

Career Community: Public Service Careers

Curriculum Code: 1855

Effective: Fall 2025 – Summer 2026

Purpose of the Major

The Mid-Michigan Police Academy at Lansing Community College is a 17-week basic police training program designed to meet or exceed state mandated certification requirements set by the Michigan Commission on Law Enforcement Standards (MCOLES) for preparing individuals for a career in law enforcement. Within the 17 weeks, more than 700 hours are utilized to provide training in 126 different topic areas. The curriculum includes topics such as criminal law and procedure, investigations, patrol procedures, human relations, conflict mediation, firearms, CSI, precision driving, use of lethal and non-lethal force, defensive tactics, report writing, traffic enforcement, and crime prevention. The emphasis in this academy is placed upon practical and hands-on training techniques. All courses for this program must be completed in a single semester. Students completing this certificate may use the credits towards the Criminal Justice, Law Enforcement Associate in Applied Science Degree (1210).

Additional Information

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the College. All of the courses for this program are open only to students officially admitted to the Police Academy Program.

Contact Information

For further information, including career options, current admission and/or program requirements, course substitutions and waivers, etc., contact the Police Academy Office in the Public Service Careers Program, West Campus Building, Room M127, telephone number 517-483-5253 or contact the LCC Admissions Office, Gannon Building – StarZone, telephone number 517-483-1254.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CJUS 270	Police Academy I	11 / 14
CJUS 271	Police Academy II	14 / 21
PFFT 114	Police Academy Fitness Trng	2 / 3
PFHW 120	Health and Wellness for Police	.5 / .5

Minimum Total Credit Hours

27.5 credits / 38.5 billing hours

Recommended Course Sequence

Semester I
CJUS 270
CJUS 271
PFFT 114
PFHW 120

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Mobile Application Developer C.A.

Career Community: Computer Technology Networking

Curriculum Code: 1712

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate provides students with an understanding of mobile applications (apps) and how these applications are utilized and integrated to meet specific business needs. The coursework builds a solid foundation of software development skills and introduces the specific skills needed for developing mobile applications. Students will also develop skills in the design of Android and iOS software systems, using appropriate technologies, architectures and techniques. This course work may be applied toward completion of the Computer Programmer/Analyst, Associate of Business degree (0113).

Milestone

Completion of CITP 130 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITP 110	Intro to Programming-Python	4 / 4
CITP 130	Intro to Mobile App Devel	3 / 3
CITP 180	Intro to C#.NET Programming	4 / 4
CITP 230	Mobile App Devel for Android	4 / 4
CITP 235	Mobile App Devel for Apple	4 / 4
CITW 160	Web Development HTML & CSS	3 / 3

Major Required Courses, Limited Choice - *Select three courses for a minimum of nine credits*

Course Code	Course Title	Credit / Billing Hours
CITD 120	SQL Concepts	3 / 3
CITF 140	Information Technology Ethics	3 / 3
CITP 140	Software Testing	3 / 3
CITP 190	Intro to Programming in JAVA	4 / 4
CITW 150	Internet Literacy	3 / 3
CITW 165	Web Development JavaScript	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

31credits / 31 billing hours

Recommended Course Sequence

Semester I
CITP 110
Limited Choice
Limited Choice

Semester II
CITP 130 – Milestone course
CITP 180
CITW 160

Semester III
CITP 230
CITP 235
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Music Transfer A.M.

Career Community: Music

Curriculum Code: 1827

Effective: Fall 2025 – Summer 2030

Purpose of Major

This degree is designed for students who wish to transfer to a four-year college or university to pursue a Bachelor's degree in this area, either through a Bachelor of Arts degree with a major in Music or a Bachelor of Music degree. Students who complete this degree will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and will also qualify for an LCC Transfer Studies Certificate of Achievement (1482). In addition, students will complete the Musicianship Studies Certificate of Completion (1352). Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for an Enhanced Associate degree. The Enhanced Associate option allows completion of credits required for employment and of additional requirements for the Bachelor's degree.

Milestone

In addition to the required General Education courses in Math and English, completion of MUSC 157 and MUSC 168 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 270	Cultural Anthropology	3 / 3
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
COMM 280	Intercultural Communication	3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MUSC 101 or MUSC 108 or MUSC 122 or MUSC 123 or MUSC 124	Vocal Jazz & Pop Ensemble Concert Choir Rock Band Jazz Ensemble Multi-Instrumental Music Ensem	1 / 3 1 / 3 1 / 3 1 / 3 1 / 3
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 157 and MUSC 109	Applied Lesson I Studio Class	2 / 2 1 / 1
MUSC 158 and MUSC 109	Applied Lesson II Studio Class	2 / 2 1 / 1
MUSC 163	Aural Skills I	1 / 2
MUSC 164	Aural Skills II	1 / 2
MUSC 168	Rudiments of Music	3 / 3
MUSC 193	Music Theory I	4 / 4
MUSC 194	Music Theory II	4 / 4
MUSC 197	Electronic Music Production	2 / 3
MUSC 199 or MUSC 240	Music Appreciation Musical Cultures to 1750	3 / 3 4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
MUSC 257 and MUSC 109	Applied Lesson III Studio Class	2 / 2 1 / 1
MUSC 258 and MUSC 109	Applied Lesson IV Studio Class	2 / 2 1 / 1

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Select one ensemble per semester, with MUSC 109 and MUSC 157, 158, 257, or 258. Ensembles may be repeated

For future transfer to:

- Central Michigan University choose ENGL 122, MATH 119 or MATH 120, and MUSC 240.
For BA/BS – Choral, choose MUSC 108 (4 times);
For BA/BS – Instrumental, BA/BS – Music, BM – Orchestral Instruments, or BM – Piano, choose MUSC 122 or 123 or 124 (4 times);
For BM – Theory/Composition, choose MUSC 122 or 123 or 124 (4 times);
For BM – Voice, choose MUSC 108 (4 times).
- Eastern Michigan University and University of Michigan Flint choose ENGL 122, MATH 119 or MATH 120, and MUSC 240.
For BA – Instrumental, or BM – Instrumental Performance, choose MUSC 122 or 123 or 124 (4 times);
For BA – Vocal, or BM – Vocal Performance, choose MUSC 101 or MUSC 108 (4 times).
- Grand Valley State University and Michigan State University choose COMM 130, MATH 120, and MUSC 240.
For BA – Music or BM – Instruments, choose MUSC 101 or 108 or 122 or 123 or 124 (4 times);
For BM – Voice, choose MUSC 101 or 108 (4 times).
- Michigan State University choose COMM 130, MATH 119 or MATH 120, and MUSC 240.
For BA – Music, or BM – Performance, choose MUSC 101 or 108 or 122 or 123 or 124 (4 times);
For BM – Composition, choose MUSC 101 or 108 or 122 or 123 or 124 (4 times).
- UM Flint choose ENGL 122, MATH 119 or MATH 120, and MUSC 240.
For BA – General Music, or BM – Performance, choose MUSC 101 or 108 or 122 or 123 or 124 (4 times).
- Western Michigan University choose ENGL 122, MATH 119, and MUSC 199.
For BM – any major, choose MUSC 101 or 108 or 122 or 123 or 124 (4 times).

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select one, as indicated for each transfer institution and major. If a specific course is not noted, select any recommended course.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
GRMN 121	Elementary German I	4 / 4

For future transfer to:

- Central Michigan University, BM in Voice, choose GRMN 121.
- Eastern Michigan University, BA in Music, or BM in Performance Instrumental, choose ARTH 211 or ARTH 212.
- Eastern Michigan University, BM in Performance Vocal, choose GRMN 121.
- Grand Valley State University, BA in Music or BM – Voice, choose GRMN 121.

Major Required Courses, Limited Choice – Natural Sciences - *Select 2 courses. If specific courses are not indicated for the institution you are considering, select any two courses from the [General Education – Transfer Degree - Natural Sciences](#) courses. The courses must be from different disciplines and one must be a lab course.*

For future transfer to:

- Central Michigan University choose BIOL 120 and any non-BIOL course.
- Eastern Michigan University choose one from ASTR 201, BIOL 125, CHEM 135, GEOG 206, GEOL 230, ISCI 131, or PHYS 120 and PFHW 123.

Major Required Courses - Limited Choices – *Select a minimum of one course as recommended for each transfer institution and major focus.*

Course Code	Course Title	Credit / Billing Hours
ENGL 260	African-American Literature	4 / 4
GRMN 122	Elementary German II	4 / 4
MUSC 144	Beginning Piano I	2 / 2
MUSC 145	Beginning Piano II	2 / 2
MUSC 280	Private Composition	1 / 1

For future transfer to:

- Central Michigan University, BA/BS – Instrumental, BA/BS – Music, BM – Orchestral Instruments, or BM - Piano, choose MUSC 144 and MUSC 145.
- Central Michigan University, BM – Theory/Composition, choose MUSC 144 and MUSC 145.
- Central Michigan University, BM – Voice, choose GRMN 122, MUSC 144, and MUSC 145.
- Eastern Michigan University, BA – Instrumental, or BM – Instrumental Performance, choose ENGL 260.

- Eastern Michigan University, BA – Vocal, or BM – Vocal Performance, choose ENGL 260 and GRMN 122.
- Grand Valley State University, BM – Voice, choose GRMN 122.
- Michigan State University, BM – Composition, choose MUSC 144, MUSC 145, and MUSC 280.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required and Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website at the institution you are considering for transfer.

Minimum Total Credit Hours

67 credits / 79 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or 131
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course
MUSC 197

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 138
MUSC 158
MUSC 163
MUSC 193

Semester III
ANTH 270 or COMM 280
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 164
MUSC 194
MUSC 241
MUSC 257
Limited Choice - Natural Sciences

Semester IV
ANTH 270 or COMM 280
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 199 or 240
MUSC 258
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Music G.A.

Career Community: Music

Curriculum Code: 1828

Effective: Fall 2025 – Summer 2030

Purpose of Major

This degree is designed for students wishing to work in any Music-related field. The degree includes a common set of courses applicable to all Music majors and to many transfer institutions. Students beginning their college study in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and transfer destination (if transfer is a goal). Students may select the Music Transfer A.M., Music Education/Pre-Music Therapy A.M., or Music Industry A.M. for employment in the Music field or for transfer, including to Ferris State University for a Bachelor of Science degree in Music and Entertainment Business. Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for an Enhanced Associate degree. The Enhanced Associate option allows students to transfer additional credits (depending on institution) toward the Bachelor's degree. This allows completion of credits required for employment and of additional requirements for the Bachelor's degree.

Milestone

In addition to the required General Education courses in Math and English, completion of MUSC 157 and MUSC 168 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Communication and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Music Career Community Required Courses – *These courses are required for all Music programs. They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for LCC General Education – Applied Degrees and Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DMAC 120 or MUSC 197	Intro to Audio Production Electronic Music Production	4 / 4 2 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MUSC 101 or MUSC 108 or MUSC 122 or MUSC 123 or MUSC 124	Vocal Jazz & Pop Ensemble Concert Choir Rock Band Jazz Ensemble Multi-Instrumental Music Ensem	1 / 3 1 / 3 1 / 3 1 / 3 1 / 3
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 157 and MUSC 109	Applied Lesson I Studio Class	2 / 2 1 / 1
MUSC 158 and MUSC 109	Applied Lesson II Studio Class	2 / 2 1 / 1
MUSC 163	Aural Skills I	1 / 2
MUSC 164	Aural Skills II	1 / 2
MUSC 168	Rudiments of Music	3 / 3
MUSC 193	Music Theory I	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
MUSC 257 and MUSC 109	Applied Lesson III Studio Class	2 / 2 1 / 1

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Select one ensemble per semester, with MUSC 109 and MUSC 157, 158, or 257. Ensembles may be repeated.

For future transfer to:

- Central Michigan University choose ENGL 122, and MATH 119 or MATH 120.
- Ferris State University choose COMM 130, and MATH 119 or MATH 120.
- Grand Valley State University and Michigan State University choose COMM 130 and MATH 120.
- Eastern Michigan University and University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and MATH 119.

Major Required Courses, Limited Choices – Natural Sciences Lab or Applied

Sciences and Technology Lab – *Select 1 or 2 courses; one must be a lab course from the [General Education – Natural Sciences Lab or Applied Sciences and Technology Lab](#) courses. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Major Required Courses, Limited Choices - *Select 12 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
BUSN 118	Introduction to Business	3 / 3
COMM 280	Intercultural Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
EDUC 230	Exceptional Learners	3 / 3
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 260	African-American Literature	4 / 4
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
MGMT 223	Supervisory Skills	3 / 3
MGMT 225	Principles of Mgmt/Leadership	3 / 3
MKTG 200	Principles of Marketing	3 / 3
MUSC 106	Private Music Lesson	2 / 2
MUSC 143	Beginning Piano I - Summer	1 / 1
MUSC 144	Beginning Piano I	2 / 2
MUSC 145	Beginning Piano II	2 / 2
MUSC 171	Sound Design and Production	4 / 4
MUSC 172	Studio Recording	4 / 4
MUSC 194	Music Theory II	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 237	Musical Theater Performance	2 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 255	Music Business & Management	3 / 3
MUSC 258 and MUSC 109	Applied Lesson IV Studio Class	2 / 2 1 / 1
MUSC 280	Private Composition	1 / 1
MUSC 296	Music Internship	3 / 3
MUSC 298	Composition and Sound Design	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHYS 120	The Art of Physics	4 / 5
PSYC 200	Introduction to Psychology	4 / 4
PSYC 221	Child Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
RELG 150	Intro to World Religions	4 / 4

Note: If selecting MUSC 258, take with MUSC 109 and an Ensemble class.

General Education – Applied Degrees

- English Composition or Applied English
Music Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Music Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Music Career Community Courses meet this requirement.
- Mathematics or Applied Mathematics
Music Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credits Hours

60 credits / 72 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I (Fall)
ACAD 100 (if waived, substitute Career Community course)
DMAC 120 or MUSC 197
ENGL 121 or ENGL 131
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course
Semester II (Spring)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 138
MUSC 158
MUSC 163
MUSC 193

Semester III (Fall)
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 164
MUSC 241
MUSC 257
Limited Choice - Natural Sciences or Applied Sciences and Technology Lab
Students who have decided on an academic program within the Music Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice courses for students completing the Music GA

College-ready Part-time

Semester I (Fall)
ACAD 100 (if waived, substitute Career Community course)
ENGL 121 or ENGL 131
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course

Semester II (Spring)
DMAC 120 or MUSC 197
MATH 119 or MATH 120 or STAT 170
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 158

Semester III (Summer – optional)
COMM 120 or COMM 130 or ENGL 122 or ENGL 132

Semester IV (Fall)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 (if no Summer enrollment)
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 163
MUSC 193
MUSC 257

Semester V (Spring)
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 164
Students who have decided on an academic program within the Music Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester VI (Fall)
MUSC 138
MUSC 241
Limited Choice - Natural Sciences Lab or Applied Science and Technology Lab
Students who have decided on an academic program within the Music Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester VII
Limited Choice courses for students completing the Music GA

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Music Education/Pre-Music Therapy A.M.

Career Community: Music

Curriculum Code: 1829

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The purpose of this major is to prepare students to enter a Bachelor's of Music Education program, leading to K-12 certification to teach music in Michigan schools or to enter the Music Therapy programs at Eastern Michigan University or Western Michigan University. Not all courses in this pathway transfer to all colleges. Students who also wish to transfer to a four-year institution should select coursework indicated for that institution and may complete the coursework for an Enhanced Associate degree. The Enhanced Associate option allows completion of credits required for employment and of additional requirements for the Bachelor's degree.

Milestone

In addition to the required General Education courses in Math and English, completion of MUSC 157 and MUSC 168 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
ENGL 121 or	Composition I or	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 131	Honors Composition I	4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MUSC 101 or MUSC 108 or MUSC 122 or MUSC 123 or MUSC 124	Vocal Jazz & Pop Ensemble Concert Choir Rock Band Jazz Ensemble Multi-Instrumental Music Ensem	1 / 3 1 / 3 1 / 3 1 / 3 1 / 3
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 157 and MUSC 109	Applied Lessons I Studio Class	2 / 2 1 / 1
MUSC 158 and MUSC 109	Applied Lessons II Studio Class	2 / 2 1 / 1
MUSC 163	Aural Skills I	1 / 2
MUSC 164	Aural Skills II	1 / 2
MUSC 168	Rudiments of Music	3 / 3
MUSC 193	Music Theory I	4 / 4
MUSC 194	Music Theory II	4 / 4
MUSC 197	Electronic Music Production	2 / 3
MUSC 199 or MUSC 240	Music Appreciation Musical Cultures to 1750	3 / 3 4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
MUSC 257 and MUSC 109	Applied Lesson III Studio Class	2 / 2 1 / 1
MUSC 258 and MUSC 109	Applied Lesson IV Studio Class	2 / 2 1 / 1

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Select one ensemble per semester, with MUSC 109 and MUSC 157, 158, 257, and 258. Ensembles may be repeated.

For future transfer to:

- Central Michigan University choose COMM 130 or ENGL 122, MUSC 240, and STAT 170.
For Music Education Choral and Music Education General Music, choose MUSC 108 (4 times).
- Eastern Michigan University choose ENGL 122, MATH 120, and MUSC 240.
For Music Education Instrumental, choose MUSC 124 (4 times).
For Music Education Vocal, choose MUSC 108 (4 times).
For Music Therapy, choose MUSC 101 or 108 (four times), or MUSC 101 or 108 (two times) and MUSC 122 or 123 or 124 (two times).
- Grand Valley State University and Michigan State University choose COMM 130, MATH 120, and MUSC 199.
For Music Education choose MUSC 101 or MUSC 108 or MUSC 122 or MUSC 123 or MUSC 124 (4 times).
- For Michigan State University choose MUSC 240.
- University of Michigan Flint choose ENGL 122, MATH 120, and MUSC 240.
- Western Michigan University ENGL 122, MATH 120, and MUSC 199.
For Music Education Choral choose MUSC 108 (4 times).
For Music Therapy choose MUSC 101 or 108 or 122 or 123 or 124 (4 times).

Major Required Courses, Limited Choice – Natural Sciences – *Select 2 courses from two different disciplines as indicated for each transfer institution and major. One must be a lab course. If specific courses are not indicated for the institution you are considering, select any two courses from the [General Education – Natural Sciences](#) courses. The courses must be from different disciplines and one must be a lab course.*

For future transfer to:

- Central Michigan University choose BIOL 120 and one non-BIOL recommended course.
- Eastern Michigan University choose two from ASTR 201, BIOL 125, CHEM 135, GEOG 206, GEOL 230, ISCI 131, or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences – *Select PSYC 200 and one EDUC course as indicated for each transfer institution and major.*

Course Code	Course Title	Credit / Billing Hours
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
EDUC 230	Exceptional Learners	3 / 3
PSYC 200	Introduction to Psychology	4 / 4

For future transfer to:

- Central Michigan University (Music Education) choose EDUC 220.
- Eastern Michigan University (Music Education or Music Therapy) choose EDUC 230.

- Grand Valley State University (Music Education) choose EDUC 220.
- Michigan State University, University of Michigan Flint, and Western Michigan University (Music Education or Music Therapy) choose EDUC 204.

General Education – Applied Degrees, Recommended Courses

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 76 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or 131
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course
MUSC 197

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109

Semester II
MUSC 138
MUSC 158
MUSC 163
MUSC 193

Semester III
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 164
MUSC 194
MUSC 257
Limited Choice - Natural Sciences
Limited Choice – Social Sciences

Semester IV
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 199 or 240
MUSC 241
MUSC 258
Limited Choice – Natural Sciences
Limited Choice – Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Music, Enhanced A.M.

Career Community: Music

Curriculum Code: 1835

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students wishing to transfer after having an awarded Associate of Music degree. This Enhanced A.M. option allows students to transfer 97 credits toward the Bachelor's degree. This allows completion of credits required for employment through the A.M. and completion of additional courses required for the Bachelor's degree, as designated by transfer articulation agreements. Required coursework follows for the Music, Enhanced A.M. pathway.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

To schedule an appointment, contact [Jonathon Gewirtz](#).

Completion of an Associate of Music Degree

Complete the courses required for the Associate of Music degree listed below is a requirement for completion of the Music, Enhanced A.M. Forty-five credits of the Music Industry A.M. coursework must be completed before declaring the Enhanced A.M. major. Work with an advisor to determine the best time to declare the Enhanced Degree as your major.

CHOOSE ONE TRACK:

Degree	Code
Music Industry, A.M.	1830

Program of Study Required Courses – Enhanced Degree

Choose one subtrack and complete the courses as listed for that subject area and transfer school.

- [Music Industry](#) - transfer to Ferris State University



Music Industry Track, Music, Enhanced A.M.

Career Community: Business

Curriculum Code: 1835

Effective: Fall 2025 – Summer 2030

Purpose of Track

This degree is designed for students wishing to transfer after having completed an Associate in Music (Music Education/Pre-Music Therapy, Music Industry, and Music Transfer) degree. This Enhanced A.M. option allows completion of credits required for employment or transfer through the A.M. and completion of additional courses required for the Bachelor's degree, as designated by transfer articulation agreements. Required coursework follows for the Music, Enhanced A.M., Music Industry track.

Completion of coursework required for the Music Industry AM (1830) is a requirement for completion of the Music, Enhanced AM. Forty-five credits of the Music Industry AM coursework must be completed before declaring the Enhanced AM major.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Before beginning this program of study, students must contact the Communication, Media, and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

To schedule an appointment, contact [Jonathon Gewirtz](#).

Completion of an Associate of Music Degree

Completion of an LCC Associate of Music is required for the Music, Enhanced degree.

Completion of the [Music Industry AM](#) (1830) as required for the specified transfer institution is the most efficient path to completing the Enhanced degree Music Industry track. Students who have completed a different degree will need to work with a Program Advisor to create a personalized MAP (My Academic Pathway) in Degree Works to ensure that all requirements are met.

Program of Study Required Courses - Enhanced Degree

Completing courses as directed meets transfer articulation agreement requirements for each institution.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.

Ferris State University

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ACCG 210	Principles of Finance	4 / 4
ACCG 211	Principles of Managerial Accg	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
ENGL 127	Business Writing	3 / 3
MUSC 199	Music Appreciation	3 / 3
PFHW 123	Human Nutrition	3 / 3
PHOT 111	Digital Photography I	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
STAT 170	Introduction to Statistics	4 / 4

MINIMUM TOTAL CREDIT HOURS

97 credits / 109 billing hours



Music Industry A.M.

Career Community: Music

Curriculum Code: 1830

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The purpose of this major is to prepare students to work in the field of Music Industry on completion of the Associate degree. This ever-evolving field, commercial music, offers opportunities in Popular Music Performance, Composition and Arrangement, Music Production, and Music Business. Additionally, upon graduation, students will be prepared to teach music, either independently or through training centers. This degree also offers students the option to transfer to Ferris State University to complete their Bachelor's Degree in Music Industry. Students wishing to transfer to Ferris State University and complete credits beyond the A.M., to transfer toward their Bachelor's Degree, should complete the Enhanced A.M. degree upon completion of the A.M. degree. Not all courses in this program transfer to all colleges. Students should work with an academic advisor and program advisor as they enroll each semester.

Milestone

In addition to the required General Education courses in Math and English, completion of MUSC 157 and MUSC 168 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Communications and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Additional Information

Students must be enrolled in one ensemble per semester for a total of four credits.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
DMAC 120 or MUSC 197	Intro to Audio Production Electronic Music Production	4 / 4 2 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MUSC 101 or MUSC 108 or MUSC 122 or MUSC 123 or MUSC 124	Vocal Jazz & Pop Ensemble Concert Choir Rock Band Jazz Ensemble Multi-Instrumental Music Ensem	1 / 3 1 / 3 1 / 3 1 / 3 1 / 3
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 157 and MUSC 109	Applied Lesson I Studio Class	2 / 2 1 / 1
MUSC 158 and MUSC 109	Applied Lesson II Studio Class	2 / 2 1 / 1
MUSC 163	Aural Skills I	1 / 2
MUSC 164	Aural Skills II	1 / 2
MUSC 168	Rudiments of Music	3 / 3
MUSC 193	Music Theory I	4 / 4
MUSC 194	Music Theory II	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
MUSC 255	Music Business & Management	3 / 3
MUSC 257 and MUSC 109	Applied Lesson III Studio Class	2 / 2 1 / 1
MUSC 258 and MUSC 109	Applied Lesson IV Studio Class	2 / 2 1 / 1
MUSC 296	Music Internship	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Select one ensemble per semester, with MUSC 109 and MUSC 157, 158, 257, and 258.
Ensembles may be repeated.

For future transfer to Ferris State University, choose COMM 130 and MATH 119 or MATH 120.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab – *Select 1 lab course from the [General Education – Natural Sciences Lab or Applied Sciences and Technology Lab](#) courses. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Note: For future transfer to Ferris State University choose BIOL 120.

Major Required Courses, Limited Choice – *Select one course. A minimum of 2.0 is required to meet for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
MGMT 223	Supervisory Skills	3 / 3
MKTG 200	Principles of Marketing	3 / 3
MUSC 171	Sound Design & Production	4 / 4
MUSC 172	Studio Recording	4 / 4
MUSC 298	Composition and Sound Design	3 / 3

Note: For future transfer to Ferris State University, choose MGMT 223 and MKTG 200

General Education – Applied Degree Courses

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Science or Applied Social Science
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
DMAC 120 or MUSC 197
ENGL 121 or 131
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course
Semester II
MATH 119 or MATH 120 or STAT 170
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 138
MUSC 158
MUSC 163
MUSC 193

Semester III (Summer)
MUSC 255
MUSC 296
Semester IV
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 164
MUSC 194
MUSC 257
Semester V
MUSC 101 or 108 or 122 or 123 or 124
MUSC 109
MUSC 241
MUSC 258
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Music Technology C.C.

Career Community: Music

Curriculum Code: 1358

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Music Technology Certificate of Completion combines practical and applied coursework in audio production, recording, MIDI composition, music fundamentals, and keyboard skills. Students develop technical and creative skills in the field of music and sound through access to state-of-the-art sound recording and electronic music studios. Diverse opportunities exist to develop performance skills.

Milestone

Completion of MUSC 197 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Students following this pathway select one subspecialty, Music Producer or Audio Engineering.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
DMAC 120	Intro to Audio Production	4 / 4
MUSC 134	Live Sound/Event Production	3 / 3
MUSC 171	Sound Design and Production	4 / 4
MUSC 172	Studio Recording	4 / 4
MUSC 197	Electronic Music Production	2 / 3
MUSC 255	Music Business & Management	3 / 3
MUSC 298	Composition and Sound Design	3 / 3

Select one subspecialty, Music Producer or Audio Engineering, and take the courses indicated for that subspecialty.

Major Required Courses, Music Producer Subspecialty

Course Code	Course Title	Credit / Billing Hours
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 168	Rudiments of Music	3 / 3

Major Required Courses, Audio Engineering Subspecialty

Course Code	Course Title	Credit / Billing Hours
MUSC 296	Music Internship	3 / 3

Minimum Total Credit Hours

26 credits / 27 billing hours

Recommended Course Sequence

Semester I - Fall
DMAC 120
MUSC 134
MUSC 168 if choosing Music Producer subspecialty
MUSC 197 – Milestone course
Semester II – Spring
MUSC 171
MUSC 172
MUSC 298
MUSC 138 if choosing Music Producer subspecialty
Semester III - Summer
MUSC 255
MUSC 296 if choosing Audio Engineering subspecialty

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Musicianship Studies C.C.

Career Community: Music

Curriculum Code: 1352

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Certificate of Completion in Musicianship Studies provides basic training in music theory, aural skills, keyboard harmony, solo and ensemble performance for: a) students preparing to transfer to college or university Music programs; b) qualifying dual-enrolled high school or home school students; or c) those seeking to reinforce their own professional musical competencies. The focus is on skills acquisition most necessary for successfully meeting audition and music placement requirements. Students may also apply all courses in this curriculum toward other degrees in Music. Not all courses in this program transfer to all colleges.

Milestone

Completion of MUSC 157 and MUSC 168 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

In order to meet the prerequisites for some Music major courses, students must complete the following requirements:

- a. Interview with a Performing Arts advisor to discuss curriculum requirements, musical repertoires and audition procedures.
- b. Perform an audition on an instrument or voice to be adjudicated by LCC Music faculty.
- c. Take a Music Theory Placement Test covering music reading skills and basic harmony.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
MUSC 109*	Studio Class	1 / 1 (2 / 2)
MUSC 138	Keyboard Harmony I	2 / 3
MUSC 157	Applied Lesson I	2 / 2

Course Code	Course Title	Credit / Billing Hours
MUSC 158	Applied Lesson II	2 / 2
MUSC 163	Aural Skills I	1 / 2
MUSC 168	Rudiments of Music	3 / 3
MUSC 193	Music Theory I	4 / 4
MUSC 197	Electronic Music Production	2 / 3

*MUSC 109 must be taken twice

Major Required Courses, Limited Choice - *Select one each semester. Courses may be duplicated.*

Course Code	Course Title	Credit / Billing Hours
MUSC 101	Vocal Jazz & Pop Ensemble	1 / 3
MUSC 108	Concert Choir	1 / 3
MUSC 122	Rock Band	1 / 3
MUSC 123	Jazz Ensemble	1 / 3
MUSC 124	Multi-Instrumental Music Ensem	1 / 3

Minimum Total Credit Hours

20 credits / 27 billing hours

Recommended Course Sequence

Semester I
MUSC 109
MUSC 157 – Milestone course
MUSC 168 – Milestone course
MUSC 197
Limited Choice

Semester II
MUSC 109
MUSC 138
MUSC 158
MUSC 163
MUSC 193
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Neurodiagnostic Technology A.A.S.

Career Community: Health Careers

Curriculum Code: 1812

Effective: Fall 2025 – Summer 2027

Purpose of the Major

Neurodiagnostic Technology is the medical diagnostic field devoted to the recording and study of electrical activity in the brain and nervous system. Neurodiagnostic Technologists (EDT) are highly skilled professionals trained to perform electroencephalograms (EEGs) in medical facilities and outpatient centers under the direct supervision of a health care provider. The EEG program not only is designed to foster the skills and knowledge necessary for competent practice, but also places emphasis on professional attitudes, values and behaviors that encourage the professional growth of the individual student. Clinical learning experiences are provided by affiliating hospitals, clinics and other outpatient facilities. Didactic learning experiences occur in supportive college course work delivered through an online environment and laboratory practice. Both are equally important to the development of the competent Neurodiagnostic Technologist. The Neurodiagnostic Technology Program has been developed by the EPiC Consortium, following the Commission on Accreditation of Allied Health Programs' (CAAHEP) Standards and Guidelines for the Accreditation of Educational Programs in Neurodiagnostic Technology. As a member of the EPiC Consortium, Lansing Community College's Neurodiagnostic Technology (EEG) program is CAAHEP accredited. Upon completion of the EEG program, graduates will be eligible to take the American Board of Registration in Electroencephalographic (ABRET) exam. Upon passing the ABRET exam, Neurodiagnostic Technologists have earned their Registered Electroencephalographic Technologist (R.EEG T) Certification.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

Milestone

In addition to the required General Education courses in Math and English, completion of NDXT 120, NDXT 132, and NDXT 200 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must complete all non-NDXT courses prior to submitting their application for Program Approval. Courses in semesters I and II must be completed with a minimum 2.0 grade, with the exception of the General Education English Composition (second course)/Communications or Applied Communications requirement which must be completed with a minimum 2.5 grade. First semester NDXT courses require Program Approval. Applications must be submitted by

May 15 and are available by contacting the Program Office at 517-483-1410. Once Program Approval is received, all students must complete each NDXT course with a minimum 2.5 grade to continue in the program and receive this degree. Students may not progress to the next semester until they have successfully completed all of the courses in the previous sequenced semester.

30 general NDXT credits may be awarded for a current Registered Electroencephalographic Technologist (R.EEG T) Certification and may be applied to the 30 required NDXT credits. For information regarding Licensure and Certification credit go to [Transfer Equivalencies – Licensure and Certification](#).

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, course substitutions and waivers, etc., contact the Medical Imaging Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission, Limited Choice – English Composition or Applied English - *Select one. Minimum 2.0 grade required. This selection satisfies the General Education English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Courses for Admission, Limited Choice – English Composition (second course)/Communication – *Select one. Minimum 2.5 grade required. This selection also satisfies the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Courses for Admission, Limited Choice – Mathematics – *Select one. Minimum 2.0 grade required. This course will satisfy the General Education Mathematics or Applied Mathematics requirement. (Any course from the General Education Mathematics College Algebra category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math – Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Major Required Courses for Admission, Limited Choice – Natural Sciences – *Select BIOL 145 or, BIOL 201 and BIOL 202. Minimum 2.0 grade required. This selection also satisfies the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11

Major Required Courses for Admission – *Minimum 2.0 grade required. PSYC 200 or SOCL 120 satisfies the General Education Humanities and Fine Arts or Social Sciences or Applied Social Sciences requirement. PSYC 200 or SOCL 120 may be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
CHSE 117	Health Law and Ethics	2 / 2
CHSE 120	Medical Terminology	4 / 4
PFHW 163	Healthy Lifestyles	2 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Major Required Courses – *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
NDXT 100	Neuroanatomy and Physiology	3 / 0*
NDXT 101	Neurodiagnostic Procedures	3 / 0*
NDXT 102	EEG Applications	3 / 0*
NDXT 120	EEG Pre-Clinical Preparation	3 / 0*
NDXT 130	Principles of EEG	2 / 0*
NDXT 131	Electricity Principles/Safety	1 / 0*
NDXT 132	EEG Instrumentation I	2 / 0*
NDXT 200	EEG Procedures & Pathology I	1 / 0*
NDXT 201	EEG Instrumentation II	2 / 0*
NDXT 202	EEG Quality Control	1 / 0*
NDXT 220	EEG Clinical Practice I	3 / 0*
NDXT 221	EEG Clinical Practice II	3 / 0*

Course Code	Course Title	Credit / Billing Hours
NDXT 230	EEG Procedures & Pathology II	1 / 0*
NDXT 231	EEG Procedures & Pathology III	1 / 0*
NDXT 232	EEG Procedures & Pathology IV	1 / 0*

General Education – Applied Degrees

Major Required Courses for Admission will meet this requirement.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Sciences and Technology Lab

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 34 billing hours*

*NDXT courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in billing hours. Please contact the Medical Imaging Program at 517-483-1410 for current tuition rates.

Recommended Course Sequence for Admission

Semester I (Fall)
MATH 119, MATH 120, STAT 170, or STAT 215
PFHW 163
PSYC 200
SOCL 120
Limited Choice -English Composition/Applied English
Semester II (Spring)
BIOL 145 or (BIOL 201 and BIOL 202)
CHSE 117
CHSE 120
COMM 110, 120, 130, or 240

Required Course Sequence – *Courses must be completed in the semester listed.*

Semester III (Fall)
NDXT 100
NDXT 101
NDXT 102
NDXT 120 – Milestone course

Semester IV (Spring)
NDXT 130
NDXT 131
NDXT 132 – Milestone course
NDXT 200 – Milestone course
NDXT 201
NDXT 202
NDXT 220

Semester V (Summer)
NDXT 221
NDXT 230
NDXT 231
NDXT 232

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Nursing - RN Option A.A.S.

Career Community: Health Careers

Curriculum Code: 0222

Effective Dates: Fall 2025 –Fall 2028

Purpose of the Major

The Nursing Program at Lansing Community College is nationally accredited by the Accreditation Commission for Education in Nursing, Inc., 3390 Peachtree Road NE, Suite 1400, Atlanta, Georgia 30326, 404-975-5000, and is approved by the Michigan Board of Nursing. It utilizes the career ladder concept. There are specific prerequisites required for entry into the registered nurse program. The program is offered in a 2-year Traditional or 2nd Degree track. The 2nd Degree track is available for students with a bachelor's degree.

The Registered Nurse (RN) Program prepares the individual to care for clients of all ages in a variety of health care settings. As an essential member of the health care team, the RN is responsible for developing, implementing, and evaluating a plan of care for clients. The RN is required to assist clients in achieving their health goals through effective communication, decision making, problem-solving, management, and technological skills. Registered nurses work in hospitals, clinics, offices, nursing homes, and home health care settings, in addition to schools, research facilities, and community agencies. The education and scope of practice of the RN is determined by state law. The student must successfully complete this program and the National Council Licensing Examination-Registered Nurse (NCLEX-RN) to practice as a registered nurse.

Milestone

In addition to the required General Education courses in Math and English, completion of NURS 201 with a 3.0 or higher, and BIOL 201 and BIOL 202 with a 2.5 or higher, is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This is a selective admission program. In order to be considered as a candidate for this program, students must meet admission requirements beyond those required for admission to the college. All courses listed below for Semesters I and II must be completed by the deadlines posted on the Nursing Program website. Students must achieve a minimum grade of 2.5 in each of the courses required for admission to the Nursing Program with the exception of NURS 201, which requires a minimum grade of 3.0. Once admitted, a student may not begin a new semester in the Nursing Program until they have successfully completed all of the NURS courses listed in the previous sequenced semester with a minimum grade of 3.0.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, admission information, course substitutions and waivers, etc., contact the Nursing Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, [selective admissions email](mailto:selective_admissions@lcc.edu) (selective_admissions@lcc.edu) or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission - BIOL 201 and BIOL 202 will also satisfy the General Education - Natural Sciences Lab or Applied Science and Technology Lab requirement.

Course Code	Course Title	Credit / Billing Hours
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203	Microbiology	3 / 3
NURS 201	Patient-Centered Care	3 / 3
PFHW 163	Healthy Lifestyles	2 / 3

Major Required Course for Admission, Limited Choice – English Composition –

Select one. This course will also satisfy the General Education - English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Course for Admission, Limited Choice – English Composition

(second course)/Communication or Applied Communication – *Select one. This course will also satisfy the General Education - English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Course for Admission, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one as recommended below or select one from the full list of [General Education Applied Degree](#), Humanities and Fine Arts or Social Sciences or Applied Social Sciences courses. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ANTH 271	Medical Anthropology	3 / 3
COMM 280	Intercultural Communication	3 / 3
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Major Required Course for Admission, Limited Choice - Mathematics – *Select one. This course will satisfy the General Education - Mathematics or Applied Mathematics requirement. (Any course from the General Education Mathematics College Algebra category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math - Applications for Living	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Recommended Course for Admission

Course Code	Course Title	Credit / Billing Hours
BIOL 204	Microbiology Laboratory	1 / 3

Minimum Total Admission Credit Hours

30 credits / 34 billing hours

Recommended Course Sequence for Admission

(Sequence may be determined based on prerequisites for the courses. To obtain current prerequisite information, search for the course in the Course Description & Required Prerequisites (Course Catalog) link in Banner.)

Semester I
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
BIOL 201 – Milestone course
ENGL 121, 122, 131, or 132
MATH 119, STAT 170, or 215 (or any Gen Ed Mathematics College Algebra course)
PFHW 163

Semester II
BIOL 202 – Milestone course
BIOL 203
BIOL 204 (Recommended)

Semester II
COMM 110, 120, 130, or 240
NURS 201 – Milestone course

2-Year Track and 2nd Degree Track Pathway

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
NURS 211	Intro to Nursing Practice	8 / 13.25
NURS 212	Concepts of Pharmacology	3 / 3.5
NURS 221	Nursing Practice I	6 / 10.75
NURS 222	Childbearing Families	4 / 5.5
NURS 231	Nursing Practice II	6 / 10
NURS 232	Children and Their Families	4 / 5.5
NURS 241	Nursing Practice III	6 / 11.75
NURS 242	Professional Practice	2 / 2

General Education – Applied Degrees, Recommended Courses

Major Required Course for Admission will meet this requirement.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Science and Technology Lab

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

69 credits / 96.25 billing hours (includes Admission requirement credits)

Required Course Sequence for 2-Year Track and 2nd Degree Track

(Sequence may be determined based on prerequisites for the courses. To obtain current prerequisite information, search for the course in the Course Description & Required Prerequisites (Course Catalog) link in Banner.)

Semester III
NURS 211
NURS 212

Semester IV
NURS 221
NURS 222

Semester V
NURS 231
NURS 232

Semester VI
NURS 241
NURS 242

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Paramedic C.A.

Career Community: Health Careers

Curriculum Code: 0272

Effective: Fall 2025 – Summer 2027

Purpose of the Major

This certificate is for individuals with a valid State of Michigan EMT License. The program provides education and training for advanced techniques of administering care in life-threatening conditions. Paramedics are employed by advanced life support ambulance services and in emergency departments and critical care units of hospitals. State licensing is required. All Emergency Medical Services courses are approved by the Michigan Department of Health and Human Services. The Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs, 25400 US Highway 19 North, Suite 158, Clearwater, FL 33763, in conjunction with the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions.

Milestone

Completion of PARA 221, PARA 231, PARA 241, PARA 251, and PARA 261 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Registration for PARA 221, PARA 231, PARA 241, PARA 251, and PARA 261 requires Program Approval. The application deadline is July 1. The application, advising guide, and current information regarding program requirements are available through the [LCC EMS webpage](#).

Students may not begin a new semester in the Paramedic Program until they have successfully completed all of the PARA courses listed in the previous semester. To earn the Certificate of Achievement, a grade of 2.5 or above is required in PARA 221, 231, 241, 251 and 261, and a grade of 3.0 or above is required in all other PARA courses.

The BIOL course(s) must be completed with a minimum grade of 2.5 within 8 years of the application deadline and prior to beginning the Paramedic program. The BIOL 201 and 202 option is recommended for transferability into other health care programs and colleges.

Contact Information

The program approval and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who begin the program during the 2025-2026 academic year. For further information, including career options, program requirements, course substitutions and waivers, etc., contact the Paramedic Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or

the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission, Limited Choice – *Select BIOL 145 or, BIOL 201 and BIOL 202.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11 (total)

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
PARA 221	Paramedic Medical Trauma I	3.75 / 3.75
PARA 222	Paramedic Medical Trauma II	4 / 4
PARA 231	Paramedic Cardiology I	2.5 / 2.5
PARA 232	Paramedic Cardiology II	2.5 / 2.5
PARA 241	Paramedic Pharmacology I	2.5 / 2.5
PARA 242	Paramedic Pharmacology II	2.5 / 2.5
PARA 251	Paramedic Skills I	2.5 / 7.5
PARA 252	Paramedic Skills II	2.5 / 7.5
PARA 261	Paramedic Clinical I	2.5 / 4
PARA 262	Paramedic Clinical II	2.75 / 4
PARA 263	Paramedic Internship	4 / 4

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

36 credits / 50.75 billing hours

Required Course Sequence

Semester I
BIOL 145 or (BIOL 201 and 202)
Semester II (Fall)
PARA 221 – Milestone course
PARA 231 – Milestone course
PARA 241 – Milestone course
PARA 251 – Milestone course
PARA 261 – Milestone course
Semester III (Spring)
PARA 222
PARA 232
PARA 242
PARA 252
PARA 262
Semester IV (Summer)
PARA 263

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Patient Care Technician C.C.

Career Community: Health Careers

Curriculum Code: 1784

Effective: Fall 2025 – Summer 2026

Purpose of the Major

This certificate curriculum will prepare an individual for employment as a patient care technician in a hospital or other acute care delivery setting. Students will learn the knowledge and skills needed in order to provide safe basic patient care, including basic phlebotomy and EKG. Upon successful completion students are eligible to take the National Certified Patient Care Technician (NCPCT) exam.

Milestone

Completion of CHSE 108 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to receive this certificate.

Students must enroll in CHSE 151 within one year of completing CHSE 108 with a minimum grade of 2.5, or have current Michigan Certified Nurse Assistant (CNA) Certification.

NCHE 102, AHA BLS Provider CPR, is a co-requisite requirement for CHSE 151. It is a 5-hour non-credit seminar course, which is flat-rated.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 108	Long-Term Care Nurse Aide	4 / 6.5
CHSE 151	Patient Care Technician	6 / 9.25

Minimum Total Credit Hours

10 credits / 15.75 billing hours

Required Course Sequence

Students follow one of the options listed below, to complete the certificate in one semester or two semesters.

One-Semester Option

Semester I
CHSE 108 – Milestone course
CHSE 151

Two-Semester Option

Semester I
CHSE 108 – Milestone course
Semester II
CHSE 151

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Personal Trainer C.A.

Career Community: Health Careers

Curriculum Code: 1705

Effective: Fall 2025 – Summer 2030

Purpose of the Major

After successful completion of this certificate individuals are prepared to take a Personal Trainer Certification Exam by a National Commission for Certifying Agencies (NCCA) accrediting organization, such as American Council on Exercise® (ACE), American College of Sports Medicine® (ACSM), National Academy of Sports Medicine (NASM), or National Strength and Conditioning Association (NCSA). Once the Personal Trainer certification is obtained, individuals are prepared for jobs as a Personal Trainer and are eligible to take the Level 1 Exercise is Medicine® (EIM) credential exam through the American College of Sports Medicine (ACSM). This curriculum is the second certificate in the Kinesiology/Exercise Science Program curriculum. Courses for this certificate may be applied toward the Kinesiology/Exercise Science Associate in Applied Science Degree.

Milestone

In addition to the required Math course, completion of BIOL 145, or BIOL 201 and BIOL 202, with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

All courses must be completed with a minimum 2.0 grade to receive this certificate.

Some courses are offered only once a year. Review the recommended course sequence section of this pathway for course offering timeframes. To complete this certificate in three semesters, students should follow the recommended course sequence.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Kinesiology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BIOL 145 or BIOL 201 and BIOL 202	Intro Anatomy and Physiology Human Anatomy and Human Physiology	4 / 6 8 / 11 (total)
COMM 110 or	Communication in the Workplace	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 120 or COMM 130 or ENGL 121	Dynamics of Communication Fundamentals Public Speaking Composition I	3 / 3 3 / 3 4 / 4
MATH 120 or MATH 126 or MATH 151 or STAT 170	College Algebra Precalculus Calculus I Introduction to Statistics	4 / 4 5 / 5 4 / 4 4 / 4
PFFT 109	Introduction to Fitness	1 / 2
PFHW 123 or PFHW 181 or PFKN 205 or PFKN 210	Human Nutrition Stress Management Sport & Exercise Psychology Athletic Training Principles	3 / 3 1 / 1 3 / 3 3 / 4
PFHW 163	Healthy Lifestyles	2 / 3
PFKN 106	Group Fitness Instructor Prep	3 / 4
PFKN 170	Foundations of Kinesiology	3 / 3
PFKN 200	Exercise Physiology	3 / 3
PFKN 201	Exercise Physiology Lab	1 / 2
PFKN 208	Biomechanics	3 / 3
PFKN 250	Measurements in Kinesiology	3 / 4
PFKN 260	Growth and Motor Behavior	3 / 3
PFKN 270	Personal Trainer Preparation	4 / 5
PFKN 280	Kinesiology Internship	3 / 3
PFWT 112	Intro to Weight Training	1 / 2

Notes:

Students planning to transfer choose BIOL 201 and BIOL 202, ENGL 121, and MATH 120 or MATH 126 or MATH 151.

Non-transfer students may choose BIOL 145 and STAT 170.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

42 credits / 51 billing hours

Recommended Course Sequence

Semester I (Fall)
BIOL 145 or BIOL 201 – Milestone course
MATH 120 or MATH 126 or MATH 151 or STAT 170
PFFT 109
PFHW 163
PFKN 170

Semester II (Spring)
BIOL 202 (if selected BIOL 201 and 202) – Milestone course
PFHW 123 or PFHW 181 or PFKN 205 or PFKN 210
PFKN 106 (Spring offering only)
PFKN 200 (Spring offering only)
PFKN 201 (Spring offering only)
PFKN 250
PFWT 112

Semester III (Fall)
COMM 110 or COMM 120 or COMM 130 or ENGL 121
PFKN 208 (Fall offering only)
PFKN 260
PFKN 270 (Fall offering only)
PFKN 280

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Pharmacy Technician C.C.

Career Community: Health Careers

Curriculum Code: 1024

Effective: Fall 2025 – Summer 2026

Purpose of the Major

This certificate curriculum is designed to introduce students to the skills necessary for a pharmacy technician position in a hospital or retail pharmacy. Students will be prepared to function with knowledge and accuracy in preparing, dispensing and control of drugs in either setting. Upon successful completion, students are eligible to take the Pharmacy Technician Certification Board National Certification Exam.

Milestone

Completion of CHSE 235 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to receive this certificate.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 235	Pharmacy Technician	4 / 4
CHSE 236	Pharmacy Technician Externship	2 / 2

Minimum Total Credit Hours

6 credits / 6 billing hours

Required Course Sequence

Semester I
CHSE 235 – Milestone course
Semester II
CHSE 236

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Philosophy A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0159

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of PHIL 151 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements for MTA.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (BA) and Eastern Michigan University choose ENGL 122 or ENGL 132.
- Central Michigan University (BS) choose ENGL 122 or ENGL 132 and STAT 170.
- Grand Valley State University and Michigan State University choose COMM 130 and MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 119 or MATH 120.
- Western Michigan University choose ENGL 122 or 132 and MATH 119.

Major Required Courses, Limited Choice – *Select two*

Course Code	Course Title	Credit / Billing Hours
PHIL 152	Introduction to Ethics	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4
PHIL 212	Philosophy: Modern & Contemporary	4 / 4

For future transfer to:

- Eastern Michigan University choose PHIL 152 and one other course.
- Grand Valley State University choose PHIL 152 and one other course.
- Michigan State University choose PHIL 211 and PHIL 212.
- University of Michigan Flint choose PHIL 152 and one other course.
- Western Michigan University choose PHIL 152 and one other course.

Major Required Courses, Limited Choices – Select one

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African-American Literature	4 / 4
ENGL 270	Gender and Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Major Required Courses, Limited Choices - Natural Sciences – Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees: MTA Natural Sciences](#).

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences – *Select two courses from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Note: For future transfer to Central Michigan University (BS), choose PSYC 200 and SOCL 120.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required and Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4

Course Code	Course Title	Credit / Billing Hours
GRMN 121	Elementary German I	4 / 4
GRMN 122	Elementary German II	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3

For future transfer to:

- Central Michigan University (BA) choose GRMN 121 and 122, and any elective course.
- Grand Valley State University choose GRMN 121 and GRMN 122 and any combination of Elective courses.
- Michigan State University, University of Michigan Flint, and Western Michigan University choose GRMN 121 and GRMN 122 and any combination of Elective courses.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170
PHIL 101
Limited Choice - Social Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
PHIL 151 – Milestone course
Limited Choice - Natural Sciences
Limited Choice - Social Sciences

Semester III
PHIL 152 or PHIL 211 or PHIL 212
Limited Choice
Limited Choice - Natural Sciences
Electives

Semester IV
PHIL 152 or PHIL 211 or PHIL 212
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Phlebotomy Technician C.C.

Career Community: Health Careers

Curriculum Code: 1010

Effective: Fall 2025 – Summer 2027

Purpose of the Major

This certificate curriculum is designed to prepare an individual to function as a phlebotomy technician. It will provide the knowledge, skills, and externship experience that is necessary to safely and skillfully obtain a blood specimen from a patient. A phlebotomist may work in a variety of settings such as hospitals, outpatient labs, physicians' offices, or clinics.

Milestone

Completion of CHSE 143 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the course.

Additional Information

Students must enroll in CHSE 144 within one year of completing CHSE 143 with a minimum grade of 2.5. CHSE 144 must also be completed with a minimum grade of 2.5 to receive this certificate.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Community Health Services Education Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHSE 143	Phlebotomy Technician	2 / 3
CHSE 144	Phlebotomy Externship	2 / 2

Minimum Total Credit Hours

4 credits / 5 billing hours

Required Course Sequence – One-Semester Option

Semester I – Fall or Spring
CHSE 143 – Milestone course
CHSE 144

Required Course Sequence – Two-Semester Option

Semester I
CHSE 143 – Milestone course

Semester II
CHSE 144

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Political Science A.A.

Career Community: Social Sciences

Curriculum Code: 0750

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses Math and English, completion of POLS 120 and POLS 201 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department in the Arts & Sciences Building, Room 2203, telephone number 517-483-1061 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 270 or	Cultural Anthropology	3 / 3
PSYC 200 or	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
POLS 120	American Political System	4 / 4
POLS 121	State and Local Government	4 / 4
POLS 201	Intro to Political Science	3 / 3
POLS 260 or POLS 270	Comparative Political Systems International Relations	3 / 3 3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 130, POLS 270, and STAT 170.
- Eastern Michigan University choose COMM 120 or COMM 130, and POLS 270.
- Grand Valley State University (International Relations BA or Political Science BS) choose COMM 130 and POLS 270.
- Michigan State University choose COMM 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 and MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122, POLS 270, and STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from two different disciplines, as indicated for each transfer institution. If specific courses are not noted, select any two courses from different disciplines. A course may also be chosen from the list of LCC General Education Transfer, Humanities and Fine Arts courses.*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTS 102	2D Design	3 / 4
ENGL 200	Introduction to Literature	3 / 3

Course Code	Course Title	Credit / Billing Hours
ENGL 201	Introduction to Poetry	4 / 4
ENGL 208	Children's Literature	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 290	Shakespeare	4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
HIST 150	African-American History	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HIST 220	Michigan History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 212	Philosophy: Modern & Contempary	4 / 4
PHIL 215	Philosophy of Religion	3 / 3
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3

For future transfer to:

- Eastern Michigan University (International Relations BA) choose HIST 216 and PHIL 151 or PHIL 152.
- Grand Valley State University (International Relations BA) choose HIST 216 and RELG 210.
- University of Michigan Flint and Western Michigan University choose one HIST and one PHIL course.

Major Required Courses, Limited Choice – Natural Sciences – *Select 2-3 courses from two different disciplines, including at least one lab course, as indicated for each transfer institution and major. A course may also be chosen from the list of LCC General Education Transfer, Natural Sciences courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203 and BIOL 204	Microbiology Microbiology Laboratory	3 / 3 1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3

Course Code	Course Title	Credit / Billing Hours
CHEM 152 and CHEM 162	General Chemistry Lecture II General Chemistry Lab II	3 / 3 1 / 3
CHEM 182 and CHEM 192	Introductory Organic Chemistry Intro Organic Chem Lab	3 / 3 1 / 3
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Note: For future transfer to Central Michigan University choose BIOL 120 and any non-BIOL course.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommend Choices – Select courses as needed to reach the 60 credits required for the degree. See notes below for specific courses for each transfer institution and major. If specific courses are not indicated for your transfer institution, select any Elective courses. Courses already taken for Career Community or Program of Study Required requirements, will not count for Elective credits. (For the full list of options, see [AA and AS Degree Electives.](#))

Course Code	Course Title	Credit/Billing Hours
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 270	Cultural Anthropology	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 276	Introduction to Archaeology	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 202	Geography of North America	3 / 3
GEOL 222	Historical Geology	4 / 6
POLS 205	Political Science Internship	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
POLS 250	Campaigns & Elections	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 209	Cognitive Psychology	3 / 3
PSYC 210	Brain and Behavior	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 222	Adolescent Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3

Course Code	Course Title	Credit/Billing Hours
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
STAT 215	Intro to Probability and Stats	4 / 4

Notes:

POLS 205 is not highly transferrable and therefore should only be selected when students are preparing to transfer to the institutions which will accept the course as noted below.

For future transfer to:

- Central Michigan University (Political Science BS) choose ENGL 122, POLS 205 or POLS 260 or POLS 270, and PSYC 202 and PSYC 203.
- Central Michigan University (International Relations BS) choose ENGL 122, POLS 205 or POLS 270, and PSYC 202 and PSYC 203.
- Eastern Michigan University (Political Science BA and Public and Nonprofit Administration BA) choose ENGL 122 and 3 from POLS 205, POLS 240, POLS 250, and POLS 270.
- Eastern Michigan University (International Affairs BA) choose ENGL 122 and one of the following pairs: ECON 201 and ECON 202, or GEOG 120 and GEOG 200, or 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Eastern Michigan University (Public and Nonprofit Administration) choose ENGL 122 and POLS 205, POLS 240, and POLS 250.
- Grand Valley State University (Political Science BS) choose ECON 201 or ECON 202, and POLS 240, POLS 250, and POLS 270.
- Grand Valley State University (International Relations BA) choose ECON 201 or ECON 202, and 4 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Michigan State University (Political Science and Pre-Law) choose POLS 270 and 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Michigan State University (Public Policy and World Politics) choose POLS 240 and 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- University of Michigan Flint choose POLS 205, and POLS 260 or POLS 270, and 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Western Michigan University (Political Science and Comparative Politics and International Relations BA) choose POLS 205 and POLS 260, and 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Western Michigan University (Public Policy or Public Law BA) choose 2 from POLS 205, POLS 240, and POLS 250, and 2 courses from the same foreign language: GRMN, JAPN, or SPAN.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or 131
POLS 120 – Milestone course
POLS 201 – Milestone course

Semester II
ANTH 270 or PSYC 200 or SOCL 120
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or STAT 170
POLS 121

Semester III
POLS 260 or POLS 270
Limited Choice – Humanities and Fine Arts
Limited Choice – Natural Sciences
Elective courses as needed for total credits

Semester IV
Limited Choice - Humanities and Fine Arts
Limited Choice - Natural Sciences
Elective courses as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Powerplant Maintenance Technology A.A.S.

Career Community: Transportation

Curriculum Code: 0745

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Powerplant Maintenance Technicians maintain aircraft in accordance with the Federal Aviation Regulations. Technicians perform inspections, repairs and alterations to aircraft powerplants, propellers and their related systems. In addition, they troubleshoot the operation of induction, cooling, exhaust, fuel metering, ignition, electrical, starting, lubrication propeller and other associated systems. Powerplant maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of AVGM 111, AVGM 112, AVGM 113, and AVGM 114, with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional information

Students are required to successfully complete the entire 6 semester program with a 2.0 or higher in each class that includes Basic Aviation Technology and Airframe Maintenance Technology in order to be eligible to test for Federal Aviation Administration (FAA) licensure as an Airframe and Powerplant (A&P) Mechanic. All program courses are offered one time per year and this is a full-time program. Program courses are offered in a required sequence. General Education courses may be taken any time throughout the program.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

Major Required Courses - Some courses meet General Education requirements for MTA. A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
AUTM 102 or DCTM 102 or TECH 102	Automotive/Collision Safety Industrial/Construction Safety General Industry Safety	1 / 1 2 / 3 2 / 3
AVAF 212	Aircraft Electrical II	4 / 5.75
AVGM 111	Aviation General I	4 / 5
AVGM 112	Aviation General II	6 / 8
AVGM 113	Aviation General III	4 / 5
AVGM 114	Materials and Processes	5 / 7
AVPP 241	Reciprocating Engine	8 / 11.25
AVPP 251	Reciprocating Engine Systems	2 / 2.5
AVPP 253	Reciprocating Ignition Systems	5 / 6.75
AVPP 255	Reciprocating Induction Sys	4 / 5.5
AVPP 257	Aircraft Propeller Systems	4 / 5.5
AVPP 259	Turbine Engine I	4 / 5.5
AVPP 261	Turbine Engine II	4 / 5.5
AVPP 263	Turbine Engine Systems	2 / 2.75
AVPP 265	Powerplant Instruments	2 / 2.5
AVPP 267	Powerplant Certification	1 / 1.5
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking	3 / 3 3 / 3 3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Science or Applied Social Science - Select one as recommended or select one from [General Education - Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one lab course as recommended or select one from [General Education - Applied Degrees, Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

General Education - Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics/Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

77 credits / 99 billing hours

Required Course Sequence

Semester I (Fall)
AVGM 111 – Milestone course
AVGM 112 – Milestone course
AVGM 113 – Milestone course
AVGM 114 – Milestone course
Semester II (Spring)
ACAD 100
AUTM 102 or DCTM 102 or TECH 102
COMM 110 or COMM 120 or COMM 130
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Science and Technology Lab
Semester III (Summer)
AVAF 212
Semester IV (Fall)
AVPP 241
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
MATH 115 or MATH 119 or MATH 120 or STAT 170
Semester V (Spring)
AVPP 251
AVPP 253
AVPP 255
AVPP 257
AVPP 259

Semester VI (Summer)
AVPP 261
AVPP 263
AVPP 265
AVPP 267

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Powerplant Maintenance Technology C.A.

Career Community: Transportation

Curriculum Code: 1035

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate of achievement enables a non-licensed individual to expand their knowledge of powerplant maintenance practices used to maintain aircraft engines in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicle powerplants. Graduates will have demonstrated technical abilities in the following areas: reciprocating and turbine engine overhaul and repair, ignition and fuel system maintenance and repair, engine electrical system diagnosis and repair, and engine inspections. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

Milestone

Completion of AVPP 241 and AVPP 259 with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
AVAF 212	Aircraft Electrical II	4 / 5.75
AVPP 241	Reciprocating Engine	8 / 11.25
AVPP 251	Reciprocating Engine Systems	2 / 2.5
AVPP 253	Reciprocating Ignition Systems	5 / 6.75
AVPP 255	Reciprocating Induction Sys	4 / 5.5
AVPP 257	Aircraft Propeller Systems	4 / 5.5
AVPP 259	Turbine Engine I	4 / 5.5
AVPP 261	Turbine Engine II	4 / 5.5
AVPP 263	Turbine Engine Systems	2 / 2.75
AVPP 265	Powerplant Instruments	2 / 2.5
AVPP 267	Powerplant Certification	1 / 1.5

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

40 credits / 55 billing hours

Required Course Sequence

Semester I (Summer)
AVAF 212
Semester II (Fall)
AVPP 241 – Milestone course
Semester III (Spring)
AVPP 251
AVPP 253
AVPP 255
AVPP 257
AVPP 259 – Milestone course
Semester IV (Summer)
AVPP 261
AVPP 263
AVPP 265
AVPP 267

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Pre-Medical Studies A.S.

Career Community: Science and Mathematics

Curriculum Code: 0754

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 127, BIOL 128, CHEM 151, and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses. Some courses require a higher grade for transfer; it is important to check with the school you are transferring to for their minimum grade requirements.

Contact Information

Contact the Science Department in the Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 126 or MATH 151	Precalculus Calculus I	5 / 5 4 / 4
PHYS 221	Introductory Physics I	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

PHIL 151 or PHIL 152 recommended.

Major Required Courses, Limited Choice – Social Sciences - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#).*

Major Required Courses, Limited Choice – Select 8 credits

Course Code	Course Title	Credit / Billing Hours
CHEM 255	Biological Chemistry	4 / 4
MATH 141	Calculus with Applications	4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
PHYS 222	Introductory Physics II	4 / 6

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHEM 151 – Milestone course
CHEM 161 – Milestone course
ENGL 121 or ENGL 131
MATH 126 or MATH 151

Semester II
BIOL 128 – Milestone course
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
PHYS 221
Limited Choice – Social Sciences

Semester III
BIOL 127 – Milestone course
CHEM 251
Limited Choice - Humanities and Fine Arts
Limited Choice - Social Sciences

Semester IV
CHEM 252
CHEM 272
Limited Choice - Humanities and Fine Arts
Limited Choice
Limited Choice
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Psychology A.A.

Career Community: Social Sciences

Curriculum Code: 0215

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of PSYC 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses – Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 270 or	Cultural Anthropology	3 / 3
POLS 120 or	American Political System	4 / 4
SOCL 120	Introduction to Sociology	4 / 4
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202 or PSYC 240	Psychology of Personality Psychology of Human Sexuality	3 / 3 3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205 or PSYC 221	Human Growth and Development Child Psychology	3 / 3 3 / 3
PSYC 250	Abnormal Psychology	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 120 or COMM 130, PSYC 202, PSYC 205, and STAT 170.
- Eastern Michigan University choose COMM 120 or COMM 130, PSYC 221, PSYC 240, and STAT 170.
- Grand Valley State University (Psychology BS or Health Sciences major in preparation for Public Health Master's program) choose COMM 130, PSYC 202, PSYC 205, and STAT 170.
- Grand Valley State University (Psychology major BA) select COMM 130 and MATH 120.
- Michigan State University choose COMM 130, MATH 120, PSYC 202, and PSYC 205.
- University of Michigan Flint choose ENGL 122, MATH 120, PSYC 202, and PSYC 205.
- Western Michigan University choose ENGL 122, PSYC 205, PSYC 240, SOCL 120, and STAT 170.
- Student considering transfer into a Public Health Administration or Social Work major choose SOCL 120.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select two courses from different disciplines, as indicated for each transfer institution. If specific courses are not noted, select any two courses from different disciplines.*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTS 102	2D Design	3 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 201	Introduction to Poetry	4 / 4
ENGL 208	Children's Literature	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4
ENGL 220	Science Fiction	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 290	Shakespeare	4 / 4
GRMN 121 or	Elementary German I	4 / 4
GRMN 122 or	Elementary German II	4 / 4
JAPN 121 or	Elementary Japanese I	4 / 4
JAPN 122 or	Elementary Japanese II	4 / 4
JAPN 201 or	Intermediate Japanese I	4 / 4
JAPN 202 or	Intermediate Japanese II	4 / 4
SPAN 121 or	Elementary Spanish I	4 / 4
SPAN 122 or	Elementary Spanish II	4 / 4
SPAN 201 or	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4
HIST 150	African-American History	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HIST 220	Michigan History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4
PHIL 212	Philosophy: Modern & Contempory	4 / 4
PHIL 215	Philosophy of Religion	3 / 3
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3

For future transfer to:

- Grand Valley State University (Health Sciences major in preparation for Public Health Master's program) choose HIST 211 or HIST 212, and PHIL 151 or PHIL 152.
- Grand Valley State University (Psychology major) choose RELG 210 and one HIST or PHIL course.
- University of Michigan Flint choose PHIL 152 and one course from another discipline.
- Western Michigan University (Public Health major) choose PHIL 152 and RELG 210.

Major Required Courses, Limited Choice – Natural Sciences – *Select 2-3 courses from two different disciplines, including at least one lab course, as indicated for each transfer institution and major. If specific courses are not indicated, select any two courses from two different disciplines.*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Course Code	Course Title	Credit / Billing Hours
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203 and BIOL 204	Microbiology Microbiology Laboratory	3 / 3 1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
CHEM 125	Basic Chemistry	4 / 4
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3
CHEM 152 and CHEM 162	General Chemistry Lecture II General Chemistry Lab II	3 / 3 1 / 3
CHEM 182 and CHEM 192	Introductory Organic Chemistry Intro Organic Chem Lab	3 / 3 1 / 3
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

For future transfer to:

- Central Michigan University (Psychology BS) BIOL 120 and any non-BIOL course.
- Central Michigan University (Public Health major) choose BIOL 145 and any non-BIOL Science course.
- Eastern Michigan University (Public Health) choose BIOL 125 and CHEM 135.
- Grand Valley State University (Health Sciences major in preparation for Public Health Master's program) choose BIOL 145 and CHEM 125.
- Grand Valley State University (Psychology major) choose ANTH 275 or ANTH 280, and one non-ANTH course.

- Michigan State University choose BIOL 121, CHEM 151, and CHEM 161.
- University of Michigan Flint choose BIOL 121 and any non-BIOL Science course.
- Western Michigan University (Public Health major) choose ANTH 275 or ANTH 280, and BIOL 121 or BIOL 145.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communications
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Limited Choices – *Select courses as needed to reach the 60 credits required for the degree. See notes below for specific courses for each transfer institution and major. If specific courses are not listed for your transfer institution, select any Elective courses. Courses already taken for Career Community or Program of Study requirements, will not count for Elective credits. (For the full list of options, see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 270	Cultural Anthropology	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 276	Introduction to Archaeology	3 / 3
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 270	Human Genetics	3 / 3
EDUC 204	Educational Psychology	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
MATH 141	Calculus with Applications	4 / 4
PFHW 123	Human Nutrition	3 / 3
POLS 120	American Political System	4 / 4
POLS 121	State and Local Government	4 / 4
POLS 201	Intro to Political Science	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 175	Psyc of Death: Prep for Living	3 / 3
PSYC 202	Psychology of Personality	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 209	Cognitive Psychology	3 / 3
PSYC 210	Brain and Behavior	3 / 3
PSYC 222	Adolescent Psychology	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

For future transfer to:

- Central Michigan University (Psychology BS) choose ENGL 122 and SOCL 260.
- Central Michigan (Public Health BS) choose BIOL 120 and ENGL 122. If BIOL 120 was completed to meet the Natural Sciences requirement, choose any PSYC course.
- Eastern Michigan University (Psychology major) choose PSYC 222.
- Eastern Michigan University (Public Health major) choose BIOL 120 and ENGL 122.
- Grand Valley State University (Psychology BA) choose a GRMN or JAPN or SPAN course and PSYC 209.
- Grand Valley State University (Health Sciences major in preparation for Public Health Master's program) choose ARTH 211 or ARTH 212, BIOL 121, BIOL 270, and PSYC 209.
- Michigan State University (Psychology major BA) choose a GRMN or JAPN or SPAN course and PSYC 209; (Psychology major BS) choose MATH 141 and PSYC 209.

- University of Michigan Flint (Psychology or Public Health major) choose a GRMN or JAPN or SPAN course and PSYC 202 and PSYC 209.
- Western Michigan University (Psychology major) choose PSYC 209 and SOCL 260.
- Western Michigan University (Public Health major) choose PFHW 123, SOCL 255, and SOCL 260.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ANTH 270 or POLS 120 or SOCL 120
ENGL 121 or ENGL 131
PSYC 200 – Milestone course

Semester II
COMM 120, COMM 130, COMM 200, COMM 240, COMM 260, ENGL 122, or ENGL 132
MATH 120 or STAT 170
PSYC 202 or PSYC 240
PSYC 203

Semester III
PSYC 205 or PSYC 221
Limited Choice - Humanities and Fine Arts
Limited Choice - Natural Sciences
Electives as needed for total credits

Semester IV
PSYC 250
Limited Choice - Humanities and Fine Arts
Limited Choice - Natural Sciences
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Public Service Careers GA

Career Community: Public Service Careers

Curriculum Code: 1848

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Public Service Career Community is right for you if you enjoy helping individuals and communities by providing safety, security, and community service. All of the programs in this pathway offer a path to employment, transfer into a four-year or bachelor's degree program, or both. Programs in this Career Community can lead to immediate work as a corrections officer, digital evidence specialist, firefighter, or police officer.

Milestone

Completion of the required General Education courses in Math and English with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The Public Service Career Academies are selective admissions programs. Please see an advisor in the Public Service Careers Department office for more information.

If you are interested in the Legal Studies Program, please contact an advisor in the Public Service Career's office, West Campus, Room M127, telephone number 517-483-1507 for more information.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Public Service Careers, West Campus, Room M127, telephone number 517-483-1507, or Student Services, West Campus, telephone number 517-483-5509.

Career Community Courses

These courses are required for all Public Service Career programs (Criminal Justice and Fire). They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CJUS 101 or	Intro to Criminal Justice	3 / 3
CJUS 131 or	Introduction to Corrections	3 / 3

Course Code	Course Title	Credit / Billing Hours
FIRE 100	Principles Emergency Services	4 / 4
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
MGMT 234 or PSYC 200 or SOCL 120	Diversity in the Workplace Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future major areas:

- Criminal Justice A.A. (Transfer), choose CJUS 101, COMM 130, and SOCL 120.
- Digital Evidence Specialist, choose CJUS 101 and MGMT 234.
- Juvenile Specialization choose CJUS 101 and PSYC 200.
- Corrections choose CJUS 131 and PSYC 200.
- Law Enforcement choose CJUS 101 or CJUS 131, and MGMT 234.
- Fire Science or Fire Science/Basic EMT choose FIRE 100.

Students considering future transfer, choose PSYC 200 or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each major and/or transfer institution. If a specific course is not indicated in the notes below, choose any recommended course or choose from [General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 280	Forensic Anthropology	3 / 3
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Notes:

- Criminal Justice, BIOL 120 is recommended. (Students not transferring can take ANTH 280 as their Science course.)
- Fire Science or Fire Science/Basic EMT, BIOL 145 is recommended.

Major Required Courses, Limited Choice - *Select 35 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
CITC 287	Cybersecurity Incident Response	3 / 3
CITF 110	Intro Computer Info Systems	3 / 3
CITF 120	Operating Systems Concepts	3 / 3
CITN 280	IT Security Foundations	3 / 3
CITS 225	Networking for PC Technicians	3 / 3
CJUS 102	Crime Causes and Conditions	3 / 3
CJUS 103	Criminal Law	3 / 3
CJUS 104	Theory of Patrol	3 / 3
CJUS 106	Intro to Juvenile Justice	3 / 3
CJUS 126	Juvenile Offenders/Families	3 / 3
CJUS 131	Introduction to Corrections	3 / 3
CJUS 133	Juvenile Residential Services	3 / 3
CJUS 134	Probation and Parole	3 / 3
CJUS 135	Legal Issues in Corrections	3 / 3
CJUS 201	Criminal Justice Org/Admin	3 / 3
CJUS 203	Criminal Procedure	3 / 3
CJUS 204	Criminal Investigation	4 / 4
CJUS 205	Policing into the 21st Century	3 / 3
CJUS 207	Digital Evidence/1 st Responder	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3

Course Code	Course Title	Credit / Billing Hours
CJUS 245	Report Writing/Crim Justice	3 / 3
CJUS 250	Correctional Institutions	3 / 3
CJUS 251	Correctional Clients	3 / 3
CJUS 255	Human Relations/Crim Justice	3 / 3
CJUS 272	Local Corrections Academy I	5 / 5
CJUS 273	Local Corrections Academy II	3 / 5
CJUS 286	Juvenile Internship I	3 / 3
COMM 110	Communication in the Workplace	3 / 3
EMTA 121	EMT Medical Trauma	5 / 5
EMTA 122	EMT Skills	2.75 / 5.5
EMTA 125	EMT Clinical	2.25 / 2.25
FIRE 101	MI F.F.T.C. Basic Fire Level I	10 / 14
FIRE 102	MI F.F.T. C. Basic Fire Lev II	6 / 8
FIRE 104	Fire Behavior & Combustion	3 / 3
FIRE 105	Fire/Hydraulics/Water Supply	4 / 4
FIRE 110	Fire Prevention	3 / 3
FIRE 112	Occup Health & Safety/Fire Svc	4 / 4
FIRE 115	Bldg Construction/Fire Protect	4 / 4
FIRE 125	Fire Protection Systems	4 / 4
FIRE 150	Strategy and Tactics	4 / 4
FIRE 210	Fire Investigation I	4 / 4
FIRE 250	Fire Administration I	4 / 4
FIRE 270	Fire Service Career Developmnt	3 / 3
HUSE 110	Child Abuse and Neglect	3 / 3
HUSE 242	The Family: Addiction/Violence	3 / 3
PFFT 119	Fire Academy Fitness Training	3 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
SOWK 101	Introduction to Social Work	3 / 3

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I
ACAD 100
CJUS 101 or CJUS 131 or FIRE 100
ENGL 121 or ENGL 131
MGMT 234 or PSYC 200 or SOCL 120
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab

Semester II
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
MATH 119 or MATH 120 or STAT 170
Limited Choice course for students completing the Public Service Career Community AAS

Semester III
Students who have decided on an academic program within the Public Services Career Community should select that program through the Change of Program request form and follow the coursework outlined for the associated pathway.
Limited Choice course for students completing the Public Service Career Community AAS

Semester IV
Students who have decided on an academic program within the Public Services Career Community should select that program through the Change of Program request form and follow the coursework outlined for the associated pathway.
Limited Choice course for students completing the Public Service Career Community AAS

College-ready Part-time

Semester I
ACAD 100
CJUS 101 or CJUS 131 or FIRE 100
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
Limited Choice – Natural Sciences or Applied Sciences and Technology Lab
Limited Choice course(s) for students completing the Public Service Career Community AAS

Semester III – Summer (Optional)
MGMT 234 or PSYC 200 or SOCL 120
Limited Choice course for students completing the Public Service Career Community AAS

Semester IV
MGMT 234 or PSYC 200 or SOCL 120 (if no summer enrollment)
Limited Choice course for students completing the Public Service Career Community AAS
Students who have decided on an academic program within the Public Services Career Community should select that program through the Change of Program request form and follow the coursework outlined for the associated pathway.

Semester V
Limited Choice course for students completing the Public Service Career Community AAS

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Radiologic Technology A.A.S.

Career Community: Health Careers

Curriculum Code: 0196

Effective: Fall 2025 – Summer 2027

Purpose of the Major

Radiologic technologists, also called radiographers, operate X-ray equipment under the direction of a physician, taking radiographs of internal parts of the body. Most often radiologic technologists are employed in hospitals, clinics and physician offices. Graduates of the program will be eligible for examination by the American Registry of Radiologic Technologists (ARRT). Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course. This program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N Wacker Drive, Suite 2850, Chicago, IL 60606-3182.

Milestone

In addition to the required General Education courses in Math and English, completion of IRXT 111 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. Courses listed below in Semesters I and II must be completed or in progress by the May 1 Radiologic Technology Program admission application deadline. Students must achieve a minimum grade of 2.5 in each of the courses required for admission to the program. Students are admitted for the fall semester only. Once admitted, a student may not begin a new semester in the Radiologic Technology Program until they have successfully completed all of the IRXT courses listed in the previous sequenced semester with a minimum grade of 2.5.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, admission requirements, course substitutions and waivers, etc., contact the Radiologic Technology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Course for Admission – Minimum 2.5 grade required.

Course Code	Course Title	Credit / Billing Hours
CHSE 117	Health Law and Ethics	2 / 2
CHSE 120	Medical Terminology	4 / 4

Major Required Courses for Admission, Limited Choice – English Composition or Applied English – *Select one. Minimum 2.5 grade required. This course will satisfy the General Education English Composition or Applied English requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Courses for Admission, Limited Choice – English Composition (second course)/Communications – *Select one. Minimum 2.5 grade required. This course will satisfy the General Education English Composition (second course)/Communications requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Courses for Admission, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one. Minimum 2.5 grade required. This course will satisfy the General Education Humanities and Fine Arts or Social Sciences or Applied Social Sciences requirement. (Any course from the General Education Humanities and Fine Arts or Social Sciences or Applied Social Sciences may also be selected.) This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 280	Intercultural Communication	3 / 3
SOCL 120	Introduction to Sociology	4 / 4
SOCL 260	Race and Ethnicity	3 / 3

Major Required Courses for Admission, Limited Choice – Mathematics – *Select one. Minimum 2.5 grade required. This course will satisfy the General Education Mathematics or Applied Mathematics requirement. (Any course from the General Education Mathematics College Algebra category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 119	Math - Applications for Living	4 / 4
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Major Required Course for Admission, Limited Choice – Natural Sciences Lab – *Select BIOL 145 or, BIOL 201 and BIOL 202. Minimum 2.5 grade required. This course will satisfy the General Education Natural Sciences Lab or Applied Sciences and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11 (total)

Major Required Courses – *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
IRXT 105	Introduction to Imaging	2 / 2
IRXT 111	Radiographic Positioning I	6 / 6
IRXT 112	Radiographic Positioning II	6 / 6
IRXT 116	Patient Care in Radiography	2 / 2.5
IRXT 140	Image Analysis	2 / 2
IRXT 144	Digital Imaging and Exposure	2 / 2
IRXT 170	Clinical Practice I	4 / 4
IRXT 172	Clinical Practice II	6 / 6
IRXT 200	Intro to Radiologic Pathology	2 / 2
IRXT 214	Comprehensive Experience I	6 / 6
IRXT 215	Comprehensive Experience II	6 / 6
IRXT 222	Radiobiology and Protection	2 / 2
IRXT 224	Radiologic Physics	4 / 4
IRXT 280	Radiologic Tech Board Review	2 / 2

General Education – Applied Degrees

Major Required Courses for Admission will meet these requirements.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Sciences and Technology Lab

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

76 credits / 78.5 billing hours

Recommended Course Sequence for Admission

Semester I
BIOL 145 or (BIOL 201 and BIOL 202)
COMM 110, 120, 130, or 240
MATH 119, MATH 120, STAT 170, or STAT 215 (or any Gen Ed - Math College Algebra course)
Semester II
CHSE 117
CHSE 120
COMM 280, SOCL 120 or SOCL 260 (or any Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences course)
ENGL 121, 122, 131, or 132

Required Course Sequence – *Courses must be completed in the semester listed.*

Semester III (Fall 2025)
IRXT 105
IRXT 111 – Milestone course
IRXT 116
Semester IV (Spring 2026)
IRXT 112
IRXT 140
IRXT 144
IRXT 170
Semester V (Summer 2026)
IRXT 172

Semester VI (Fall 2026)
IRXT 214
IRXT 222
IRXT 224

Semester VII (Spring 2027)
IRXT 200
IRXT 215
IRXT 280

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Religious Studies A.A.

Career Community: History, Humanities, and English

Curriculum Code: 0751

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of RELG 230 or RELG 232 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses - Some courses meet General Education requirements for MTA.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or	Math - Applications for Living College Algebra	4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
STAT 170	Introduction to Statistics	4 / 4
RELG 150 or RELG 210	Intro to World Religions Comparative Religions	4 / 4 3 / 3
RELG 230 or RELG 232	Introduction to Christianity Introduction to Islam	3 / 3 3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer:

- Central Michigan University, Eastern Michigan University, and Ferris State University, choose ENGL 122 or ENGL 132.
- Grand Valley State University and Michigan State University, choose COMM 120 or 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 or ENGL 132, and STAT 170.
- University of Michigan Flint choose ENGL 122 or ENGL 132, and MATH 119 or 120.
- Western Michigan University choose ENGL 122, and MATH 119 or STAT 170.

Major Required Courses, Limited Choice– *Select two*

Course Code	Course Title	Credit / Billing Hours
HUMS 160	Mythology	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
RELG 211	Asian Religions and Traditions	4 / 4

Note: For future transfer to Central Michigan University choose HUMS 160.

Major Required Courses, Limited Choice – *Select one as indicated for each transfer institution. If a specific course is not indicated, choose any course.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 260	African American Literature	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 270	Gender and Literature	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic and Critical Think	4 / 4

Note: For future transfer to Eastern Michigan University choose ENGL 260.

Major Required Courses, Limited Choices - Natural Sciences – *Select two from different disciplines as indicated for each transfer institution; one must be a lab course. If specific courses are not indicated, choose any courses or choose from [LCC General Education Transfer Degrees: MTA Natural Science](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University, choose BIOL 120 and a non BIOL course.
- Ferris State University, choose BIOL 125 and a non-BIOL course.
- Michigan State University choose, BIOL 120 or BIOL 125, and ASTR 201 or CHEM 135 or ISCI 131 or PHYS 120.

Major Required Courses, Limited Choice – Social Sciences – *Select two from different disciplines as indicated for each transfer institution and major. If specific courses are not indicated, choose any course or choose from [LCC General Education Transfer Degrees MTA Social Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 276	Introduction to Archaeology	3 / 3
ECON 120	Power, Authority and Exchange	4 / 4
ECON 201	Principles of Economics-Micro	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
GEOG 200	World Regional Geography	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Note: For future transfer to Central Michigan University choose PSYC 200 and SOCL 120.

General Education – Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required and Major Required Limited Choice courses meet this requirement
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. (For the full list of options, see [AA and AS Degree Electives](#).)*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 215	American Cultural Experience	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4

Course Code	Course Title	Credit / Billing Hours
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic and Critical Think	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4

Note: For future transfer to Eastern Michigan University choose ARTH 211 and additional Elective credits.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or 131
MATH 119 or MATH 120 or STAT 170
RELG 150 or 210
Major Required Course, Limited Choice - Social Sciences

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
RELG 230 or 232 – Milestone course
Major Required Course, Limited Choice - Natural Science
Major Required Course, Limited Choice - Social Science

Semester III
Limited Choice
Major Required Course, Limited Choice - Natural Science
Electives

Semester IV
Limited Choice
Limited Choice
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Robotics and Automated Technology C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 1605

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A student who completes this certificate will be exposed to the elements of automated systems design and installation needed to obtain employment in various settings including those within the manufacturing and industrial sectors. Students will be able to maintain, troubleshoot, test, and repair modern-day equipment having a technologically diverse design.

Milestone

Completion of ELTE 110 and ELTE 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for the ELTE and METS courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 131	Machine Controls I	4 / 5
ELTE 132	Control Panel Assembly	2 / 3
MATH 115	Technical Mathematics	4 / 4
METD 150	Industrial Blueprint Reading	3 / 3
METM 108	Machine Tool Operations	4 / 6
METS 125	Intro to Hydraulics/Pneumatics	4 / 6
METS 145	Automated Systems	3 / 4.5
METS 160	Introduction to Robotics	3 / 4.5
TECH 102	General Industry Safety	2 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

33 credits / 45 billing hours

Recommended Course Sequence

Semester I
ELTE 110 – Milestone course
MATH 115
METD 150
METS 160
TECH 102
Semester II
ELTE 131 – Milestone course
ELTE 132 (Second 8 weeks)
METM 108
METS 125
METS 145

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Robotics and Automated Technology C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1789

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A student who completes this certificate will have the skills necessary for an entry level position in robotics and automated systems. Students will be able to write and edit programs on industrial robots and repair and maintain fluid power systems.

Milestone

Completion of ELTE 110 and METS 160 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will fulfill the prerequisite for the ELTE and METS courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
ELTE 131	Machine Controls I	4 / 5
METD 150	Industrial Blueprint Reading	3 / 3
METS 125	Intro to Hydraulics/Pneumatics	4 / 6
METS 160	Introduction to Robotics	3 / 4.5
TECH 102	General Industry Safety	2 / 3

Minimum Total Credit Hours

20 credits / 27.5 billing hours

Recommended Course Sequence

Semester I
ELTE 110 – Milestone course
METS 160 – Milestone course
TECH 102

Semester II
ELTE 131
METD 150
METS 125

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Sales Specialist C.A.

Career Community: Business

Curriculum Code: 0242

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Students in this curriculum begin to learn sales skills to enhance their performance on the job. Selling is more than getting a customer to buy a product. It is a system that involves understanding and meeting needs, educating on possibilities, developing lasting relationships, and documenting the sales process in CRM systems. This certificate may help prepare a student for entry-level customer service positions and inbound/outbound for sales and business development jobs. Students may complete this certificate as part of the Marketing Associate of Business degree. Students will gain greater understanding of how sales fits within the promotional Marketing P's.

Milestone

Completion of MKTG 200, with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the School of Business, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
BUSN 118	Introduction to Business	3 / 3
CITA 110 or CITF 110	Intro to Microsoft Office Intro Computer Info Systems	3 / 3 3 / 3
COMM 110 or COMM 130	Communication in the Workplace Fundamentals Public Speaking	3 / 3 3 / 3
MGMT 150	Managing Customer Relations	3 / 3
MKTG 119	Mktg/Manage Your Profess Image	3 / 3
MKTG 120	Sales	3 / 3
MKTG 200	Principles of Marketing	3 / 3

Major Required Courses, Limited Choice – *Select three courses.*

Course Code	Course Title	Credit / Billing Hours
MGMT 200	Creative Thinking for Business	3 / 3
MKTG 130	Retailing	3 / 3
MKTG 140	Principles of Advertising	3 / 3
MKTG 210	Intro to Digital Marketing	3 / 3
MKTG 229	Public Relations	3 / 3
MKTG 235	Marketing Internship	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 30 billing hours

Recommended Course Sequence

Semester I
BUSN 118
CITA 110 or CITF 110
MKTG 120
MKTG 200 – Milestone course
Limited Choice

Semester II
COMM 110 or COMM 130
MGMT 150
MKTG 119
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Science and Mathematics G.A.

Career Community: Science and Mathematics

Curriculum Code: 1831

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students interested in pursuing a career in mathematics, engineering, or a broad range of scientific fields. This Career Community includes the following pathways: Biology, Biotechnology, Chemical Technology, Chemistry, Computer Science, Conservation and Sustainability, Engineering-Physics, Geography, Geology, Pre-Medical Studies, and Mathematics. The degree includes a common set of courses applicable to the Science and Mathematics majors listed above and to many transfer institutions. Students beginning college in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and, if transfer is a goal, the specific requirements of the transfer institution.

Not all courses in this pathway transfer to all colleges.

Milestone

In addition to the required General Education courses in Math and English, completion of CHEM 151 and CHEM 161 with a 2.0 or higher, is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science and Mathematics Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092.

Science and Mathematics Career Community Courses – *These courses are required for all Science and Mathematics programs. They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127 or	Cell Biology	4 / 6
GEOG 206 or	Physical Geography	4 / 4
GEOL 221 or	Physical Geology	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Non-Verbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4
ENGL 121 or	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4
MATH 120 or	College Algebra	4 / 4
MATH 126 or	Precalculus	5 / 5
MATH 151	Calculus I	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

In addition to CHEM 151 and CHEM 161, select Science courses as follows:

- Students interested in Biology, Biotechnology, Chemical Technology, Chemistry, Conservation and Sustainability, or Pre-Medical Studies choose BIOL 127.
- Students interested in Computer Science choose BIOL 127 or PHYS 251.
- Students interested in Engineering/Physics or Mathematics choose PHYS 251.
- Students interested in Geography choose GEOG 221.
- Students interested in Geology choose GEOL 221.

Major Required Courses, Limited Choices – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one from [LCC General Education, Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#).

For students wanting to complete the MTA requirements: Select one from LCC General Education, Transfer Degrees (MTA) Humanities and Fine Arts or Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Notes:

Students considering adding Secondary Education Certification in Mathematics or Science in order to teach in Michigan Public Schools are strongly encouraged to select an EDUC course as listed below.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

Major Required Courses – Limited Choices – Select 32 credits. **Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals.** Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required for General Education and to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

For students wanting to complete the MTA requirements:

Humanities and Fine Arts – Select one or two courses, from different disciplines, from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#). If an MTA Humanities and Fine Arts course was selected for the Limited Choice block above, take only one course.

Social Sciences - Select one or two courses, from different disciplines, from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#). If an MTA Social Sciences course was selected from the Limited Choice block above, take only one course.

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 203	Microbiology	3 / 3
BIOL 204	Microbiology Laboratory	1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6

Course Code	Course Title	Credit / Billing Hours
BIOL 265	Zoology	4 / 6
BIOL 270	Human Genetics	3 / 3
BIOL 275	Molecular Biology I	4 / 6
BIOL 276	Molecular Biology II	4 / 6
CHEM 120	Gen Organic & Biological Chem	4 / 4
CHEM 125	Basic Chemistry	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 162	General Chemistry Lab II	1 / 3
CHEM 182	Introductory Organic Chemistry	3 / 3
CHEM 192	Intro Organic Chem Lab	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 255	Biological Chemistry	4 / 4
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
CITF 110	Intro Computer Info Systems	3 / 3
CJUS 210	Intro to Forensic Science	3 / 3
COMM 240	Interpersonal Communication	3 / 3
CPSC 101	Intro to Computer Science	3 / 3
CPSC 230	Algorithms and Computing w/ C++	4 / 4
CPSC 231	Computing and Data Structures	4 / 4
CPSC 260	Computing Science Structures	4 / 4
ECON 120	Power, Authority and Exchange	4 / 4
ECON 202	Principles of Economics-Macro	4 / 4
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 202	Geography of North America	3 / 3
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
GSCI 241	Remote Sens/AirPhoto Interpret	3 / 4
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
ISCI 245	S.T.E.M. Workplace Practices	4 / 6

Course Code	Course Title	Credit / Billing Hours
MATH 126	Precalculus	5 / 5
MATH 141	Calculus with Applications	4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4
MATH 254	Intro to Differential Equation	4 / 4
MATH 260	Linear Algebra	4 / 4
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7
PHYS 260	Statics for Engineers	3 / 3
POLS 120	American Political System	4 / 4
POLS 260	Comparative Political Systems	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SCIN 287	Science Technology Internship	2-4 / 2-4
SOCL 120	Introduction to Sociology	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 62 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I
ACAD 100 (if waived, substitute Career Community course)
BIOL 127 or GEOG 206 or GEOL 221 or PHYS 251
ENGL 121 or 131
MATH 120 or MATH 126 or MATH 151
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester II
Students who have decided on an academic program within the Science and Math Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
CHEM 151
CHEM 161
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
Limited Choice courses for students completing the Science and Mathematics GA

Semester III
Students who have decided on an academic program within the Science and Math Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
Limited Choice courses for students completing the Science and Mathematics GA

Semester IV
Limited Choice courses for students completing the Science and Mathematics GA

College-ready Part-time

Semester I
ACAD 100 (if waived, substitute Career Community course)
MATH 120 or MATH 126 or MATH 151
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences

Semester II
CHEM 151
CHEM 161
ENGL 121 or 131

Semester III (Summer – optional)
Students who have decided on an academic program within the Science and Math Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
BIOL 127 or GEOG 206 or GEOL 221 or PHYS 251
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132

Semester IV
Students who have decided on an academic program within the Science and Math Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.
BIOL 127 or GEOG 206 or GEOL 221 or PHYS 251 (if no Summer enrollment)
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 (if no Summer enrollment)
Limited Choice courses for students completing the Science and Mathematics GA

Semester V
Limited Choice courses for students completing the Science and Mathematics GA

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Sign Language Interpreter A.A.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 0282

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A Sign Language Interpreter is a person specially trained to facilitate communication between the Deaf, DeafBlind, Hard of Hearing, and hearing communities. Employment opportunities may be in educational settings, freelance, or contracted with agencies to provide interpreting services for D/deaf persons. State of Michigan PA 204 of 2007 states that interpreters must possess certification in order to be employed. The State of Michigan regulates all required certifications under Licensing and Regulatory Affairs' (LARA) Bureau of Community and Health Systems (BCHS) and state credential testing is through the Board for Evaluation of Interpreters (BEI). To apply for BEI certification in Michigan, you must have at least an associate degree from an accredited institution and pass a Test of English Proficiency. In addition to BEI certification for the State of Michigan, graduates may also consider taking the Educational Interpreter Performance Assessment (EIPA) for interpreting in educational settings only, or National Interpreter Certification (NIC) for nationally recognized certification. Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution and may also complete coursework for a Communication, Journalism, and Language Enhanced AA, Sign Language Interpreter track, degree. The Enhanced AA option allows students to transfer additional credits toward the Bachelor's degree. Institutions accepting credits from the Enhanced AA, Sign Language Interpreter track, include Gallaudet University and Siena Heights University. Students planning to enroll must meet with a faculty advisor from the Sign Language Interpreter Program.

Milestone

In addition to the required General Education courses in Math and English, completion of SIGN 163, SIGN 167, and SIGN 170 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Entrance to the Interpreter Training Program is granted by passing a screening implemented by the Sign Language Program. Once students have successfully completed, with a minimum 2.0, or are currently enrolled in SIGN 163 (American Sign Language III), SIGN 166 (Fingerspelling), SIGN 167 (Beginning Sign to Voice), and SIGN 170 (Expressive/Receptive ASL), then they are eligible to screen.

To complete this degree, students must receive at least a 2.5 in ALL 200-level SIGN courses and complete 400 practicum hours - 240 hours their second year of the program (sophomore year) and 160 hours their third year of the program (junior year) - while also satisfying the individual

category requirements. For questions related to the practicum, please contact the Practicum Supervisor by [email](mailto:signpracticum@star.lcc.edu) (signpracticum@star.lcc.edu).

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Sign Language Interpreter Program, 517-483-5329, signadvising@star.lcc.edu.

Major Required Courses - *Some courses meet General Education requirements for MTA. A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 280 or SOCL 120	Intercultural Communication Introduction to Sociology	3 / 3 4 / 4
SIGN 160	Intro to the Deaf Community	3 / 3
SIGN 161	American Sign Language I	3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
SIGN 162	American Sign Language II	3 / 3
SIGN 163	American Sign Language III	3 / 3
SIGN 164	American Sign Language IV	3 / 3
SIGN 166	Fingerspelling	3 / 3
SIGN 167	Beginning Sign to Voice	3 / 3
SIGN 170	Expressive/Receptive ASL	3 / 3
SIGN 200	Sign Practicum Seminar	2 / 2
SIGN 240	Intro to Transliterating	3 / 3
SIGN 250	Deaf Culture and History	3 / 3
SIGN 260	Linguistic Principles of ASL	3 / 3
SIGN 263	Intermediate Sign to Voice	3 / 3
SIGN 266	Post-Secondary Interpreting	2 / 2
SIGN 267	Sign Practicum I	3 / 3
SIGN 268	Sign Practicum II	3 / 3
SIGN 270	Advanced Interpreting	3 / 3
SIGN 271	Advanced Sign to Voice	3 / 3
SIGN 293	Principles of Interpreting	3 / 3
SIGN 296	Specialized Interpreting	2 / 2

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to Gallaudet University, choose MATH 119.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied

Sciences and Technology Lab - *Select one lab course as indicated for each transfer institution and major or choose one from [LCC General Education - Applied Degrees, Natural Sciences Lab or Applied Sciences and Technology Lab](#). If a specific course is not indicated, select any course. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Gallaudet University, choose BIOL 145.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses will meet this requirement

- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses will meet this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

72 credits / 72 billing hours

Recommended Course Sequence

Semester I (Fall)
ACAD 100
COMM 280 or SOCL 120
ENGL 121 or ENGL 131
SIGN 160
SIGN 161
Semester II (Spring)
MATH 119, MATH 120, or STAT 170
SIGN 162
SIGN 166
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Semester III (Summer)
SIGN 163 – Milestone course
SIGN 167 – Milestone course
SIGN 170 – Milestone course
Semester IV (Fall)
SIGN 164
SIGN 200
SIGN 240
SIGN 250 (can be taken semester IV or VII)

Semester V (Spring)
SIGN 260 (can be taken in semester V or VIII)
SIGN 263
SIGN 267

Semester VI (Summer)
SIGN 266
SIGN 268

Semester VII (Fall)
SIGN 250 (can be taken semester IV or VII)
SIGN 270
SIGN 293

Semester VIII (Spring)
SIGN 260 (can be taken semester V or VIII)
SIGN 271
SIGN 296

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Sign Language Interpreter C.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 0187

Effective: Fall 2025 – Summer 2030

Purpose of the Major

A Sign Language Interpreter is a person specially trained to facilitate communication between the Deaf, DeafBlind, Hard of Hearing, and hearing communities. Employment opportunities may be educational settings, freelance, or contracted with agencies to provide interpreting services for dDeaf persons. State of Michigan PA 204 of 2007 states that interpreters must possess certification in order to be employed. The State of Michigan regulates all required certifications under Licensing and Regulatory Affairs' (LARA) Bureau of Community and Health Systems (BCHS) and state credential testing is through the Board for Evaluation of Interpreters (BEI). To apply for BEI certification in Michigan, you must have at least an associate's degree from an accredited institution and pass a Test of English Proficiency. In addition to BEI certification for the state of Michigan, graduates may also consider taking the Educational Interpreters Performance Assessment (EIPA) for interpreting in educational settings only, or the National Interpreter Certification (NIC) for nationally recognized certification. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course. Students planning to enroll must meet with a faculty advisor from the Sign Language Interpreter Program.

Milestone

Completion of SIGN 163, SIGN 167, and SIGN 170 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Entrance to the Interpreter Training Program is granted by passing a screening implemented by the Sign Language Program. Students are eligible to screen after they have successfully completed, with a minimum 2.0, or are currently enrolled in, SIGN 163 (American Sign Language III), SIGN 166 (Fingerspelling), SIGN 167 (Beginning Sign to Voice), and SIGN 170 (Expressive/Receptive ASL).

Students must receive at least a 2.0 in all 100-level SIGN courses, 2.5 in all 200-level SIGN courses, and complete 240 practicum hours, while also satisfying the individual category requirements, to complete this certificate. For questions related to the practicum, please contact the Practicum Supervisor by [email](mailto:signpracticum@star.lcc.edu) (signpracticum@star.lcc.edu).

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Sign Language Interpreter Program, 517-483-5329 or signadvising@star.lcc.edu.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
SIGN 160	Intro to the Deaf Community	3 / 3
SIGN 161	American Sign Language I	3 / 3
SIGN 162	American Sign Language II	3 / 3
SIGN 163	American Sign Language III	3 / 3
SIGN 164	American Sign Language IV	3 / 3
SIGN 166	Fingerspelling	3 / 3
SIGN 167	Beginning Sign to Voice	3 / 3
SIGN 170	Expressive/Receptive ASL	3 / 3
SIGN 200	Sign Practicum Seminar	2 / 2
SIGN 240	Intro to Transliterating	3 / 3
SIGN 263	Intermediate Sign to Voice	3 / 3
SIGN 266	Post-Secondary Interpreting	2 / 2
SIGN 267	Sign Practicum I	3 / 3
SIGN 268	Sign Practicum II	3 / 3

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

40 credits / 40 billing hours

Recommended Course Sequence

Semester I (Fall)
SIGN 160
SIGN 161
Semester II (Spring)
SIGN 162
SIGN 166

Semester III (Summer)
SIGN 163 – Milestone course
SIGN 167 – Milestone course
SIGN 170 – Milestone course
Semester IV (Fall)
SIGN 164
SIGN 200
SIGN 240
Semester V (Spring)
SIGN 263
SIGN 267
Semester VI (Summer)
SIGN 266
SIGN 268

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Social Sciences G.A.

Career Community: Social Sciences

Curriculum Code: 1842

Effective: Fall 2025 – Summer 2030

Purpose of Major:

This degree is designed for students wishing to work in a field related to Social Sciences, including Public Health Administration. Pathways included in this Career Community are Anthropology, Political Science, Psychology, and Sociology. This degree includes a set of courses common to all majors within the Career Community and the majority of transfer institutions. Students beginning college in this degree program are encouraged to work with academic and program advisors throughout their first few semesters of study to determine their specific major area and transfer institution.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestones

In addition to the required General Education courses in English and Mathematics, completion of ANTH 270, POLS 120, PSYC 200, and/or SOCL 120 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061 or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

Social Sciences Career Community Courses – *These courses are required for all Social Sciences programs (Anthropology, Political Science, Psychology, and Sociology). They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose ENGL 122 and STAT 170.
- Eastern Michigan University choose ENGL 122.
- Grand Valley State University (Political Science BS) choose COMM 130 and STAT 170.
- Grand Valley State University (International Relations BA) choose COMM 130 and MATH 120.
- Michigan State University choose COMM 130 and MATH 120.
- University of Michigan Ann Arbor choose ENGL 122 and MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and STAT 170.

Social Sciences Career Community Courses, Limited Choices – *Choose two courses as noted below.*

Course Code	Course Title	Credit / Billing Hours
ANTH 270	Cultural Anthropology	3 / 3
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Notes:

- Anthropology majors choose ANTH 270, and one other course from the list above.
- Political Science majors choose POLS 120, and any other course above.
- Psychology majors choose PSYC 200, and any other course above.
- Students considering transfer into a Public Health Administration or Social Work major choose SOCL 120, and any other course above.
- Sociology majors choose SOCL 120, and any other course above.

Major Required Courses, Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab – *Select one lab course.*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203 and BIOL 204	Microbiology Microbiology Laboratory	3 / 3 1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3
CHEM 152 and CHEM 162	General Chemistry Lecture II General Chemistry Lab II	3 / 3 1 / 3
CHEM 182 and CHEM 192	Introductory Organic Chemistry Intro Organic Chem Lab	3 / 3 1 / 3

Course Code	Course Title	Credit / Billing Hours
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Major Required Courses, Limited Choices – *Select 34 credits. To satisfy MTA, select two Humanities and Fine Arts courses from two different disciplines, not to include more than one foreign language course, and a second Natural Science course from a different discipline than the one selected for the Natural Sciences or Applied Sciences and Technology Lab.*

Course Code	Course Title	Credit / Billing Hours
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 271	Medical Anthropology	3 / 3
ANTH 272	Food and Sustainability	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 276	Introduction to Archaeology	3 / 3
ANTH 280	Forensic Anthropology	3 / 3
ANTH 300	Applied Field Survey Methods	4-8 / 4-8
ARTH 120 or ARTH 211 or ARTH 212 or ARTH 216	Masterpieces of Art & Music Art History to the Renaissance Art Hist from the Renaissance Contemporary Art	4 / 4 4 / 4 4 / 4 4 / 4
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3
COMM 280	Intercultural Communication	3 / 3
ECON 201	Principles of Economics-Micro	4 / 4

Course Code	Course Title	Credit / Billing Hours
ECON 202	Principles of Economics-Macro	4 / 4
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
ENGL 200 or ENGL 208 or ENGL 211 or ENGL 212 or ENGL 220 or ENGL 255 or ENGL 256 or ENGL 260 or ENGL 266 or ENGL 267 or ENGL 270 or ENGL 290	Introduction to Literature Children's Literature World Literature I World Literature II Science Fiction American Lit to 1865 American Lit 1865 to Present African-American Literature British Lit to 1800 British Lit 1800 to Present Gender and Literature Shakespeare	3 / 3 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 202	Geography of North America	3 / 3
GEOG 206	Physical Geography	4 / 4
GEOL 222	Historical Geology	4 / 6
GRMN 121 or JAPN 121 or SPAN 121	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
JAPN 122 or SPAN 122	Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4
HIST 150 or HIST 211 or HIST 212 or HIST 214 or HIST 215 or HIST 216 or HIST 220 or HIST 235 or HIST 240 or HIST 250	African-American History U.S. History to 1877 U.S. History: 1877 to Present African History World History to 1500 World History since 1500 Michigan History Modern European History Latin American History History of Modern Asia	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
HONR 151	Honors Colloquy I	1 / 1
HONR 152	Honors Colloquy II	1 / 1
HONR 155	Community Service Practicum I	1 / 1
HONR 156	Community Service Practicum II	1 / 1
HUMS 140 or HUMS 160 or HUMS 215 or	Art of Being Human Mythology American Cultural Experience	4 / 4 4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
HUMS 223 or HUMS 224	The Western World to 1500 The Western World since 1500	4 / 4 4 / 4
PFHW 123	Human Nutrition	3 / 3
PHIL 101 or PHIL 151 or PHIL 152 or PHIL 211 or PHIL 212 or PHIL 215	Introduction to Philosophy Intro to Logic & Critical Think Introduction to Ethics Philosophy: Ancient & Medieval Philosophy: Modern & Contemporary Philosophy of Religion	3 / 3 4 / 4 4 / 4 4 / 4 4 / 4 3 / 3
PHYS 120	The Art of Physics	4 / 5
POLS 121	State and Local Government	4 / 4
POLS 201	Intro to Political Science	3 / 3
POLS 205	Political Science Internship	3 / 3
POLS 240	Introduction to Public Policy	3 / 3
POLS 250	Campaigns & Elections	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 175	Psyc of Death: Prep for Living	3 / 3
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 209	Cognitive Psychology	3 / 3
PSYC 210	Brain and Behavior	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 222	Adolescent Psychology	3 / 3
PSYC 240	Psychology of Human Sexuality	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
RELG 150 or RELG 210 or RELG 230 or RELG 232	Intro to World Religions Comparative Religions Introduction to Christianity Introduction to Islam	4 / 4 3 / 3 3 / 3 3 / 3
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

General Education – Applied Degrees

- English Composition or Applied English
Social Sciences Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Social Sciences Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Social Sciences Career Community Courses meet this requirement.
- Mathematics or Applied Mathematics
Social Sciences Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
Social Sciences Career Community, Limited Choice, 2 courses
Limited Choice Courses for students completing the Social Sciences GA
Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or STAT 170
Limited Choice - Natural Sciences or Applied Sciences and Technology Lab
Limited Choice Courses for students completing the Social Sciences GA
Semester III
Students who have decided on an academic program within the Social Sciences Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway
Limited Choice Courses for students completing the Social Sciences GA

Semester IV
Limited Choice Courses for students completing the Social Sciences GA

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Sociology A.A.

Career Community: Social Sciences

Curriculum Code: 0753

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Milestone

In addition to the required General Education courses in Math and English, completion of SOCL 120 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Sociology/Anthropology Program, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 270 or	Cultural Anthropology	3 / 3
POLS 120 or	American Political Systems	4 / 4
PSYC 200	Introduction to Psychology	4 / 4
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3
COMM 240 or	Interpersonal Communication	3 / 3
COMM 260 or	Nonverbal Communication	3 / 3
ENGL 122 or	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or STAT 170	College Algebra Introduction to Statistics	4 / 4 4 / 4
SOCL 120	Introduction to Sociology	4 / 4
SOCL 254	Marriage and Family	3 / 3
SOCL 255	Contemporary Social Problems	3 / 3
SOCL 260	Race and Ethnicity	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 130 and STAT 170.
- Eastern Michigan University choose COMM 120 or COMM 130, and STAT 170.
- Grand Valley State University choose COMM 130 and MATH 120.
- Michigan State University choose COMM 130 and MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines, as indicated for each transfer institution. If specific courses are not noted, select any two courses from different disciplines. A course may also be chosen from the list of LCC General Education Transfer, Humanities and Fine Arts courses.*

Course Code	Course Title	Credit / Billing Hours
ARTH 120	Masterpieces of Art & Music	4 / 4
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTS 102	2D Design	3 / 4
ENGL 200	Introduction to Literature	3 / 3
ENGL 201	Introduction to Poetry	4 / 4
ENGL 208	Children's Literature	4 / 4
ENGL 211	World Literature I	4 / 4
ENGL 212	World Literature II	4 / 4

Course Code	Course Title	Credit / Billing Hours
ENGL 220	Science Fiction	4 / 4
ENGL 255	American Lit to 1865	4 / 4
ENGL 256	American Lit 1865 to Present	4 / 4
ENGL 260	African-American Literature	4 / 4
ENGL 266	British Lit to 1800	4 / 4
ENGL 267	British Lit 1800 to Present	4 / 4
ENGL 270	Gender and Literature	4 / 4
ENGL 290	Shakespeare	4 / 4
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
HIST 150	African-American History	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HIST 214	African History	4 / 4
HIST 215	World History to 1500	4 / 4
HIST 216	World History since 1500	4 / 4
HIST 220	Michigan History	4 / 4
HIST 240	Latin American History	4 / 4
HIST 250	History of Modern Asia	4 / 4
HUMS 140	Art of Being Human	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MUSC 199	Music Appreciation	3 / 3
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4
PHIL 212	Philosophy: Modern & Contemporary	4 / 4
PHIL 215	Philosophy of Religion	3 / 3
RELG 150	Intro to World Religions	4 / 4
RELG 210	Comparative Religions	3 / 3

Course Code	Course Title	Credit / Billing Hours
RELG 211	Asian Religions and Traditions	4 / 4
RELG 230	Introduction to Christianity	3 / 3
RELG 232	Introduction to Islam	3 / 3

Note: For future transfer to Eastern Michigan University, University of Michigan Flint, and Western Michigan University choose one HIST and one PHIL course.

Major Required Courses, Limited Choice – Natural Sciences – *Select 2-3 courses from two different disciplines, including at least one lab course, as indicated for each transfer institution and major. If specific courses are not indicated, select any two courses from two different disciplines. A course may also be chosen from the list of LCC General Education Transfer, Natural Sciences courses.*

Course Code	Course Title	Credit / Billing Hours
ANTH 275	Biological Anthropology	4 / 4
ANTH 280	Forensic Anthropology	3 / 3
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
BIOL 203 and BIOL 204	Microbiology Microbiology Laboratory	3 / 3 1 / 3
BIOL 210	Natural Resource Conservation	4 / 6
BIOL 260	Botany	4 / 6
BIOL 265	Zoology	4 / 6
CHEM 135	Chemistry in Society	4 / 5
CHEM 151 and CHEM 161	General Chemistry Lecture I General Chemistry Lab I	4 / 4 1 / 3
CHEM 152 and CHEM 162	General Chemistry Lecture II General Chemistry Lab II	3 / 3 1 / 3
CHEM 182 and CHEM 192	Introductory Organic Chemistry Intro Organic Chem Lab	3 / 3 1 / 3
CHEM 262	Quantitative Analysis	3 / 6
CHEM 272	Organic Chemistry Laboratory	2 / 6
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6

Course Code	Course Title	Credit / Billing Hours
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
ISCI 131	Integrated Physical Science	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5
PHYS 221	Introductory Physics I	4 / 6
PHYS 222	Introductory Physics II	4 / 6
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Note: For future transfer to Central Michigan University choose ANTH 275 and BIOL 120.

General Education - Transfer Degrees (MTA)

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course)/Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.
- Social Sciences
Major Required Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for this degree. See notes below for specific courses for each transfer institution and major. If specific courses are not indicated for your transfer institution, select any Elective courses. Courses already taken for Career Community or Program of Study requirements, will not count for Elective credits. (For the full list of options, see [AA and AS Degree Electives.](#))*

Course Code	Course Title	Credit / Billing Hours
ANTH 120	Introduction to Anthropology	3 / 3
ANTH 270	Cultural Anthropology	3 / 3
ANTH 275	Biological Anthropology	4 / 4
ANTH 276	Introduction to Archaeology	3 / 3
COMM 280	Intercultural Communication	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4

Course Code	Course Title	Credit / Billing Hours
GRMN 121 or GRMN 122 or JAPN 121 or JAPN 122 or JAPN 201 or JAPN 202 or SPAN 121 or SPAN 122 or SPAN 201 or SPAN 202	Elementary German I Elementary German II Elementary Japanese I Elementary Japanese II Intermediate Japanese I Intermediate Japanese II Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4 4 / 4
GEOG 206	Physical Geography	4 / 4
GEOL 222	Historical Geology	4 / 6
POLS 120	American Political System	4 / 4
POLS 121	State and Local Government	4 / 4
POLS 201	Intro to Political Science	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
PSYC 202	Psychology of Personality	3 / 3
PSYC 203	Social Psychology	3 / 3
PSYC 205	Human Growth and Development	3 / 3
PSYC 209	Cognitive Psychology	3 / 3
PSYC 210	Brain and Behavior	3 / 3
PSYC 221	Child Psychology	3 / 3
PSYC 222	Adolescent Psychology	3 / 3
PSYC 250	Abnormal Psychology	3 / 3
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability & Stats	4 / 4

For future transfer to:

- Central Michigan University (BA) choose ENGL 122, and 2 courses from the same foreign language: GRMN, JAPN, or SPAN. (BS) choose ENGL 122 and PSYC 202 and PSYC 203.
- Eastern Michigan University choose COMM 280 and ENGL 122.
- Grand Valley State University choose STAT 170 or STAT 215.
- Michigan State University choose GEOG 206, GEOL 222, and STAT 215.
- University of Michigan Flint choose 2 courses from the same foreign language: GRMN, JAPN, or SPAN.
- Western Michigan University choose 2 courses from the same foreign language: GRMN, JAPN, or SPAN.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ANTH 270, POLS 120, or PSYC 200
ENGL 121 or ENGL 131
SOCL 120 – Milestone course
Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
MATH 120 or STAT 170
SOCL 255
Semester III
SOCL 254
SOCL 260
Limited Choice - Humanities and Fine Arts
Limited Choice – Natural Sciences
Semester IV
Limited Choice - Humanities and Fine Arts
Limited Choice - Natural Science
Electives as needed for total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Spanish Studies C.C.

Career Community: Communication, Journalism, and Language

Curriculum Code: 1788

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This Certificate of Completion in Spanish Studies provides the beginning and intermediate level Spanish language skills and cross-cultural information for students preparing to transfer to college or university programs, qualifying dual-enrolled high school or home school students, or those seeking to reinforce their own professional Spanish language and cultural competencies. In an increasingly international world economy, holders of this certificate may improve their employment opportunities, in particular since many companies in Spanish-speaking countries have ties to Michigan businesses. Completion of the certificate may also help employment opportunities in the health care services field. Students may apply all courses in this curriculum toward other certificates and/or degrees.

Milestone

Completion of SPAN 121 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
SPAN 121	Elementary Spanish I	4 / 4
SPAN 122	Elementary Spanish II	4 / 4
SPAN 201	Intermediate Spanish I	4 / 4
SPAN 202	Intermediate Spanish II	4 / 4

Minimum Total Credit Hours

16 credits / 16 billing hours

Recommended Course Sequence

Semester I
SPAN 121 – Milestone course
Semester II
SPAN 122
Semester III
SPAN 201
Semester IV
SPAN 202

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Sterile Processing Technician C.C.

Career Community: Health Careers

Curriculum Code: 1017

Effective: Fall 2025 – Summer 2027

Purpose of the Major

This certificate curriculum prepares individuals to function competently in the central service department of a healthcare facility. Duties include, but are not limited to, processing of patient care equipment, supplies, and instruments for use in all departments. Includes principles and practices of decontamination, cleaning, disinfection, sterilization, and distribution of medical/surgical supplies. This curriculum provides externship experience and prepares the successful completer for the National Certification Exam for Sterile Processing and Distribution.

Milestone

Completion of STPR 145 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to receive this certificate.

Students wishing to pursue an associate degree, should declare the Allied Health A.A.S. major. Courses in this program of study may be applied toward that degree.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Surgical Technology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
STPR 145	Foundations Sterile Processing	5 / 6.5
STPR 148	Sterile Processing Externship	2 / 2

Minimum Total Credit Hours

7 credits / 8.5 billing hours

Required Course Sequence

Semester I
STPR 145 – Milestone course
STPR 148

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Studio Art A.F.A.

Career Community: Art, Design, and Media

Curriculum Code: 1781

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree provides concentrated study in art at the pre-professional level. It is structured to facilitate students' transfer to a four-year university with a professional degree program: the Bachelor of Fine Arts degree, usually a double major in a specific art concentration. Graduates will be well versed to enter any baccalaureate major with an art concentration. Additional education will enhance an individual's employment and advancement opportunities. Not all courses in this degree transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of ARTS 103 and ARTS 131 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – *Some courses meet General Education requirements. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ARTH 216	Contemporary Art	4 / 4
ARTS 102	2D Design	3 / 4
ARTS 103	3D Design	3 / 5.25
ARTS 131	Drawing I	3 / 5.25
ARTS 132	Figure Drawing	3 / 5.25
ARTS 151	Color	3 / 5.25
ARTS 153	Drawing II	3 / 4
ARTS 171	Adobe Photoshop	3 / 4
ARTS 200	Painting I	3 / 5.25
ARTS 201	Painting II	3 / 5.25
ARTS 202	Design for Innovation	3 / 4

Course Code	Course Title	Credit / Billing Hours
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
PHOT 120	Still/Motion Capture & Editing	3 / 3

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 as shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose ENGL 122.
- College for Creative Studies choose ENGL 122 and MATH 119.
- Ferris State University Kendall College of Art and Design choose ENGL 122 and, MATH 119 or MATH 120.
- Grand Valley State University choose COMM 120 or COMM 130, and MATH 120.
- Michigan State University choose COMM 130 and, MATH 119 or MATH 120.
- University of Michigan Flint choose ENGL 122 and MATH 120.
- Western Michigan University choose ENGL 122 and, MATH 119 or STAT 170.

Major Required Courses – Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course or choose from [LCC General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 120	The Art of Physics	4 / 5

For future transfer to:

- Central Michigan University choose BIOL 120.
- Ferris State University Kendall College of Art and Design choose BIOL 120.

Major Required Courses, Limited Choice – *Select three courses.*

Course Code	Course Title	Credit / Billing Hours
ARTH 211	Art History to the Renaissance	4 / 4
ARTH 212	Art Hist from the Renaissance	4 / 4
ARTS 162	Type Communications	3 / 4
ARTS 164	Digital Illustration	3 / 4
ARTS 173	Web Design I	3 / 4
ARTS 183	Design History	3 / 3
ARTS 195	Employ/Busn Issues for Artists	1 / 1
ARTS 226	Storyboards & Animatics	3 / 4
ARTS 232	Comp Graphics/2D Animation	3 / 4
ARTS 266	Figure Drawing II	3 / 4
ARTS 267	Adv Drawing Digital Sketchbook	3 / 4

For future transfer to:

- Central Michigan University choose ARTH 211, ARTH 212, and ARTS 162.
- College for Creative Studies choose ARTH 211, ARTH 212, and ARTS 164.
- Eastern Michigan University choose ARTH 211, ARTH 212, and ARTS 162.
- Ferris State University Kendall College of Art and design choose ARTH 211, ARTH 212, and ARTS 183.
- Grand Valley State University choose ARTH 211, ARTH 212, and ARTS 162.
- University of Michigan Flint choose ARTH 211, ARTH 212, and ARTS 164.
- Western Michigan University choose ARTH 211, ARTH 212, and ARTS 266.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses meet this requirement.
- English (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 78.5 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ARTS 102
ARTS 103 – Milestone course
ARTS 131 – Milestone course
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
ENGL 121 or ENGL 131

Semester II
ARTS 151
ARTS 153
ARTS 171
MATH 119 or MATH 120 or STAT 170
Limited Choice - Natural Sciences or Applied Sciences and Technology Lab

Semester III
ARTH 216
ARTS 132
ARTS 200
PHOT 120

Semester IV
ARTS 201
ARTS 202
Limited Choice Courses

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Surgical Technology A.A.S.

Career Community: Health Careers

Curriculum Code: 1021

Effective: Fall 2025 – Summer 2027

Purpose of the Major

The Surgical Technologist is the person who stands elbow-to-elbow with the surgeon and passes the instruments. It is their job to maintain the sterile field and to respond to the surgeon's needs. The Surgical Technologist prepares the operating room for surgical procedures, prepares all sterile areas and instruments for use, gowns and gloves other personnel, assists with sterile draping of the patient, and hands sterile instrumentation to the surgeon and/or assistant. Surgical Technologists are generally employed by a hospital to work in an operating room. They may also be hired in a surgeon's office, an out-patient clinic, a central processing department, or they may choose to explore sales or teaching. The Surgical Technologist may become certified by successfully passing a national certification examination offered by the National Board for Surgical Technology and Surgical Assisting (NBSTSA®). An Associate Degree in Surgical Technology is strongly recommended by the Association of Surgical Technologists (AST®/1990). This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP®), 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33756, upon the recommendation of the Accreditation Review Committee on Education in Surgical Technology and Surgical Assisting (ARC-STSA®).

Milestone

In addition to the required General Education courses in Math and English, completion of SURG 121 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

This is a selective admission program. In order to be considered as a candidate for this program, students must meet admission requirements beyond those required for admission to the college. All courses listed in Semesters I and II must be completed or in progress by the May 1st Surgical Technology admission application deadline. Students must achieve a minimum grade of 2.5 in BIOL 201, BIOL 202, CHSE 120, CHSE 117 or PFHW 163, and SURG 103 or BIOL 203, and a minimum grade of 2.0 in all other courses. Once admitted, a student may not begin a new semester in the Surgical Technology Program until they have successfully completed all of the SURG courses listed in the previous sequenced semester with a minimum grade of 2.5.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, admission requirements, course substitutions and waivers, etc., contact the Surgical Technology Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for Admission – *BIOL 201 and BIOL 202 also satisfy the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5
CHSE 120	Medical Terminology	4 / 4

Major Required Courses for Admission, Limited Choice – *Select one.*

Course Code	Course Title	Credit / Billing Hours
CHSE 117	Health Law and Ethics	2 / 2
PFHW 163	Healthy Lifestyles	2 / 3

Major Required Courses for Admission, Limited Choice – *Select one.*

Course Code	Course Title	Credit / Billing Hours
BIOL 203	Microbiology	3 / 3
SURG 103	Surgical Asepsis	2 / 2

Major Required Course for Admission, Limited Choice – English Composition – *Select one. This selection also satisfies the General Education English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Course for Admission, Limited Choice – English Composition (second course)/Communication or Applied Communication – *Select one. This selection also satisfies the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
SURG 100	Fundamentals of Surgical Tech	3 / 3
SURG 101	The Surgical Patient	2 / 2
SURG 108	Surgical Pharmacology	2 / 2
SURG 109	Basic Surgical Procedures	4 / 4
SURG 110	Advanced Surgical Procedures	4 / 4
SURG 111	Surgical Specialty/Prof Prep	4 / 4
SURG 121	Applied Surgical Techniques I	2 / 4
SURG 122	Applied Surgical Techniques II	2 / 4
SURG 123	Applied Surgical Techniq III	4 / 8
SURG 124	Applied Surgical Techniques IV	4 / 8

General Education – Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English
Major Required Course for Admission – English Composition will meet this requirement
- English Composition (second course)/Communication or Applied Communication
Major Required Course for Admission – English (second course)/Communication will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*
MGMT 234, Diversity in the Workplace, 3 credits / 3 billing hours
PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

- Mathematics or Applied Mathematics – *Select one, or any other course from the General Education Mathematics College Algebra category.*
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours
STAT 170, Introduction to Statistics, 4 credits / 4 billing hours
STAT 215, Intro to Probability and Stats, 4 credits / 4 billing hours
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses for Admission will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 76 billing hours

Recommended Course Sequence for Admission

Semester I
Gen Ed - Mathematics or Applied Mathematics
BIOL 201
CHSE 120
ENGL 121, ENGL 122, ENGL 131, or ENGL 132

Semester II
Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
BIOL 202
BIOL 203 or SURG 103
CHSE 117 or PFHW 163
COMM 110, COMM 120, COMM 130, or COMM 240

Required Course Sequence

Semester III (Fall 2025)
SURG 100
SURG 101
SURG 108
SURG 109
SURG 121 – Milestone course
SURG 122

Semester IV (Spring 2026)
SURG 110
SURG 111
SURG 123
SURG 124

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Teacher Paraprofessional A.A.S.

Career Community: Education

Curriculum Code: 1039

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Teacher Paraprofessionals work under the direction of a classroom teacher in settings ranging from early childhood through elementary, middle school and high school. This curriculum meets federal requirements for teacher paraprofessionals. Some of the duties of the teacher paraprofessional include working with small groups of children on their reading, math, and writing development; collecting and recording data on student performance; using technology for instructional purposes; and carrying out the instructional objectives of the classroom teacher. In addition, the teacher paraprofessional must be able to communicate effectively with parents, students, and teachers; implement behavior management techniques; and recognize a range of special needs.

Milestone

In addition to the required General Education courses in Math and English, completion of EDUC 280 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A minimum grade of 2.0 is required in all courses. Some transfer universities require a 3.0 or higher in EDUC courses.

Students in this program choose one subspecialty: 1) Early Childhood, 2) Elementary Education, or 3) Special Education, to determine the courses to take each semester. The Early Childhood specialty focuses on children 0-5 years while the Elementary specialty focuses on ages 6-12 years, and the Special Education specialty includes working with those with disabilities 3 years through young adult. This program can also be a first step toward teacher certification. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Upon completion of a subspecialty, any additional subspecialty courses will not count toward the student's enrollment level for determining financial aid eligibility.

Students completing subspecialty requirements for Early Childhood will fulfill the requirements for the Science Core area.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses for all Subspecialties – *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course). ISCI 121 also fulfills the Natural Sciences Lab or Applied Science and Technologies Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
CHDV 101	Child Growth/Develop: 0-12 Yrs	4 / 4
CHDV 123	Literacy and Play	1 / 1
COMM 120 or COMM 130 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
EDUC 204	Educational Psychology	3 / 3
EDUC 226	Foundations of Literacy	3 / 3
EDUC 230	Exceptional Learners	3 / 3
EDUC 280	Teacher Education Practicum	3 / 3
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
ENGL 208	Children's Literature	4 / 4
HIST 211 or HIST 212	U.S. History to 1877 U.S. History: 1877 to Present	4 / 4 4 / 4
ISCI 121	Physical Science Concepts	4 / 6
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes for all Subspecialties:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University (Pre-K-3, Pre-K-6, or 3-6) choose ENGL 122 or 132, and MATH 120.
- Eastern Michigan University (Elementary Comprehensive or Early Childhood Comprehensive) choose ENGL 122 or 132, and MATH 120.
- Ferris State University choose ENGL 122 or 132, and MATH 120.
- Michigan State University (all Elementary) choose COMM 130 and MATH 120.
- Grand Valley State University (all Elementary) choose ENGL 122 or 132, and MATH 120.
- Western Michigan University choose COMM 130 and MATH 119.

Early Childhood Subspecialty Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 111	Child Guidance/Communication	4 / 4

Early Childhood Subspecialty Major Required Courses, Limited Choice – *Select 12 credits.*

Course Code	Course Title	Credit / Billing Hours
CHDV 122	Creativity and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
CHDV 135	Inclusion for Every Learner	3 / 3
CHDV 215	Infant Toddler Program Dev	4 / 4
CHDV 220	Preschool Curriculum Approach	4 / 4
CHDV 222	Caring for School-Age Children	2 / 2

Elementary Education Subspecialty Major Required Courses

Course Code	Course Title	Credit / Billing Hours
EDUC 220	Foundations of Education	3 / 3

Elementary Education Subspecialty Major Required Courses, Limited Choice – *Select 16 credits. BIOL 125 is recommended for transfer.*

Course Code	Course Title	Credit / Billing Hours
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHDV 111	Child Guidance/Communication	4 / 4
CHDV 230	Early Childhood Program Admin	3 / 3
ENGL 122	Composition II	4 / 4
HIST 211	U.S. History to 1877	4 / 4
POLS 120	American Political System	4 / 4
PSYC 200	Introduction to Psychology	4 / 4

Course Code	Course Title	Credit / Billing Hours
PSYC 205	Human Growth and Development	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Special Education Subspecialty Major Required Courses - *SIGN 160 also fulfills the English (second course)/Communications or Applied Communications requirement and may be substituted for COMM 120 or COMM 130 or ENGL 122 or ENGL 132.*

Course Code	Course Title	Credit / Billing Hours
EDUC 220	Foundations of Education	3 / 3
PFKN 260	Growth and Motor Behavior	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SIGN 160	Intro to the Deaf Community	3 / 3

Special Education Subspecialty Major Required Courses, Limited Choice – *Select 9 credits.*

Course Code	Course Title	Credit / Billing Hours
HIST 211	U.S. History to 1877	4 / 4
HUSE 110	Child Abuse and Neglect	3 / 3
POLS 120	American Political System	4 / 4
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3
SIGN 161	American Sign Language I	3 / 3

General Education – Applied Degrees for all Subspecialties

- English Composition or Applied English
Major Required Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses meet this requirement.
For students in the Special Education subspecialty, SIGN 160 also fulfills this requirement and may be substituted for COMM 120, COMM 130, ENGL 122 or ENGL 132.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technologies Lab
Major Required Courses meet this requirement.

Additional Credits for all Subspecialties

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional](#)

[Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 62 billing hours

Early Childhood Subspecialty Recommended Course Sequence

Semester I
ACAD 101
CHDV 100
EDUC 204
EDUC 280 – Milestone course
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
CHDV 101
CHDV 123
EDUC 230
ENGL 208
HIST 211 or HIST 212

Semester III
CHDV 111
EDUC 226
ISCI 121
Limited Choice

Semester IV
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
Limited Choice
Limited Choice
Limited Choice
Limited Choice

Elementary Education Subspecialty Recommended Course Sequence

Semester I
ACAD 100
EDUC 204
EDUC 280 – Milestone course
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
CHDV 101
CHDV 123
EDUC 220
EDUC 230
HIST 211 or HIST 212

Semester III
COMM 120 or COMM 130 or ENGL 122 or ENGL 132
EDUC 226
ISCI 121

Semester IV
ENGL 208
Limited Choice
Limited Choice
Limited Choice
Limited Choice

Special Education Subspecialty Recommended Course Sequence

Semester I
ACAD 100
EDUC 204
EDUC 220
EDUC 280 – Milestone course
ENGL 121 or ENGL 131
MATH 119 or MATH 120 or STAT 170

Semester II
CHDV 101
CHDV 123
EDUC 230
ENGL 208
HIST 211 or HIST 212

Semester III
COMM 120 or COMM 130 or ENGL 122 or ENGL 132 (not required if substitution is submitted for SIGN 160)
EDUC 226
ISCI 121
PSYC 200
SIGN 160

Semester IV
PFKN 260
Limited Choice courses

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Teacher Paraprofessional C.C.

Career Community: Education

Curriculum Code: 0829

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The certificate offers a foundation in educational concepts and a practical introduction to classroom management and content-area instruction. It is intended for students who may have already met federal requirements for teacher paraprofessionals by completing 60 college credits or an associate degree in a field other than education. It is also recommended as preparation for students who plan to take the state-approved exam for paraprofessionals. Courses in this certificate may also be applied toward an associate degree or transfer program leading to teacher certification.

Milestone

Completion of EDUC 280 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

- Some transfer universities require a 3.0 or higher in EDUC courses.
- A criminal background check is required for employment in this field.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Social Science and Humanities Department, Arts and Sciences Building, Room 2203, telephone number 517-483-1061, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CHDV 123	Literacy and Play	1 / 1
EDUC 226	Foundations of Literacy	3 / 3
EDUC 230	Exceptional Learners	3 / 3
EDUC 280	Teacher Education Practicum	3 / 3

Major Required Courses, Limited Choice - *Select nine credits*

Course Code	Course Title	Credit / Billing Hours
ARTS 240	Art for Elementary Teachers	3 / 4
CHDV 100	Foundations Early Childhood Ed	3 / 3
CHDV 122	Creativity and Play	1 / 1
CHDV 124	Young Investigators: Math/Sci	1 / 1
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
ENGL 208	Children's Literature	4 / 4
GEOG 200	World Regional Geography	4 / 4
ISCI 121	Physical Science Concepts	4 / 6

Minimum Total Credit Hours

19 credits / 19 billing hours

Recommended Course Sequence

Semester I
EDUC 226
EDUC 280 – Milestone course
Limited Choice

Semester II
CHDV 123
EDUC 230
Limited Choice
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Theatre A.F.A.

Career Community: Theatre

Curriculum Code: 1849

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree provides a pathway directly to employment for students wishing to work in the field on completion of the degree and to transfer for students who wish to pursue a Bachelor's degree in this area, either through a Bachelor of Arts degree with a major in a Theatre focus or a Bachelor of Fine Arts degree with a Theatre-focused major. Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for requirements for the Bachelor's degree.

Milestone

In addition to the required General Education courses in Math and English, completion of THEA 110, 120, 131, and 143 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication, Media and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546 or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Theatre Career Community Courses – *These courses are required. They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.) Select courses as indicated for each transfer institution/major.*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4
THEA 110	Introduction to Theatre	3 / 3
THEA 114	Intro to Technical Theatre	3 / 3
THEA 115A or	Tech Thea II-Set/Light Design	2 / 3

Course Code	Course Title	Credit / Billing Hours
THEA 115B or THEA 115C or THEA 115D	Tech Thea II-Prop Design/Const Tech Thea II-Costume Des/Const Tech Thea II-Produc/Stage Mgmt	2 / 3 2 / 3 2 / 3
THEA 120	Introduction to Acting	2 / 3
THEA 131	Studio Theatre Performance I	1 / 2
THEA 141	Acting I - Contemporary	2.5 / 4
THEA 143	Stage Voice for the Actor	3 / 4
THEA 171	Play Analysis	3 / 3
THEA 173	Movement for the Actor	2 / 3
THEA 181	Improvisation	2.5 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to Western Michigan University choose MATH 119 or STAT 170.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
DANC	Any 100-level course	2 / 3
THEA 150	Acting for the Camera	3 / 4
THEA 160	Stage Combat	2 / 3
THEA 210	Theater History	4 / 4
THEA 220	Play Directing	3 / 4
THEA 225	Building a Character	2 / 2
THEA 233	Studio Theatre Performance III	2 / 4
THEA 240	Acting-Shakespeare	3 / 4
THEA 283	Audition Workshop	2 / 3
THEA 285	Stage Makeup	2 / 3

Major Required Courses, Limited Choice –English Composition (second course)/Communication or Applied Communication– *Select one as indicated for each transfer institution. If a specific course is not recommended, choose any recommended course. A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 200	Small Group Communication	3 / 3
COMM 240	Interpersonal Communication	3 / 3
COMM 260	Nonverbal Communication	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
SIGN 160	Intro to the Deaf Community	3 / 3

For future transfer to:

- Central Michigan University or Grand Valley State University choose COMM 120 or 130.
- Eastern Michigan University, Ferris State University, and Michigan State University choose COMM 130.
- University of Michigan Flint and Western Michigan University choose ENGL 122 or 132.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab – *Select one lab course as indicated for each transfer institution. If a specific course is not recommended, choose any recommended course or select from the list: [LCC General Education Applied Degrees: Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
BIOL 120	Environmental Science	4 / 6
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 145	Intro Anatomy and Physiology	4 / 6

Note: For future transfer to Central Michigan University choose BIOL 120.

General Education -Applied Degrees

- English Composition
Theatre Career Community Courses meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Limited Choice Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Theatre Career Community Courses meet this requirement.
- Mathematics or Applied Mathematics
Theatre Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

64 credits / 83 billing hours

Recommended Course Sequence

Semester I
ACAD 100
ENGL 121 or ENGL 131
THEA 110 – Milestone Course
THEA 114
THEA 120 – Milestone Course
THEA 173
THEA 181

Semester II
MATH 119 or MATH 120 or STAT 170
THEA 115A or 115B or 115C or 115D
THEA 131 – Milestone Course
THEA 141
THEA 143 – Milestone Course
THEA 171

Semester III
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132 or SIGN 160
DANC (any 100-level DANC course)
THEA 160
THEA 210
THEA 220
THEA 283

Semester IV
THEA 150
THEA 225
THEA 240
THEA 285
Limited Choice, Natural Sciences Lab or Applied Sciences and Technology Lab

Semester V (Summer)
THEA 233

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Transfer Studies A.A.

Curriculum Code: 1779

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is a customized program of study for students pursuing transfer into a major that LCC does not offer. Many of our degrees can lead to transfer into a variety of majors. Consult with an academic advisor to choose the pathway that best meets your employment and/or transfer goals. Students intending to declare this program need initial approval from an academic advisor and then final approval from Academic Affairs. For advising options, see the [Academic Advising webpage](#).

Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). Transfer students are strongly encouraged to apply for this certificate along with their degree. General education and subject area requirements may vary from one college or university to another. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Milestone

Completion of the required Math and English courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Prior to beginning this program, students must meet with an academic advisor in the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – Option A

Select 12 credits from the course codes list below and numbered 120 to 294, unless otherwise indicated below. Credits may come from a combination of these course codes, or a combination of Option A and Option B courses. These courses should be from an area you expect to pursue as a major in your bachelor's degree program. For course selections, speak with an advisor or consult the program website at the institution you are considering for transfer.

• ANTH (except 275, 280)	• GEOG (except 206, 220)	• PHIL
• ARTH	• GRMN	• POLS
• COMM	• HIST	• PSYC
• ECON	• HUMS	• RELG
• EDUC	• JAPN	• SOCL
• ENGL	• JRNL	• SPAN
• FREN	• LING	• THEA

Major Required Courses – Option B

Select 12 credits from the course codes listed below. Credits may come from a combination of these course codes, or a combination of Option A and Option B courses.

- ARTS numbered 102 to 294 (except ARTS 105, 232, 253, 269, and 281)
- CHDV numbered 100, 101, 111, 135, 215, 230, and 284
- CJUS numbered 101, 102, 103, 106, 126, 131, 135, 201, 204, 205, 210, and 288
- MUSC 101-294 and 298 (except MUSC 255, 270, 292, and 296)
- SOWK 101

General Education - Transfer Degrees (MTA)

Beyond the Major credits taken above, complete a minimum of 30 credits from the [General Education](#) for Transfer Degrees.

- English Composition – *Select one course*
- English Composition (second course) or Communication – *Select one course*
- Humanities and Fine Arts – *Select two courses, each from a different discipline*
- Mathematics – *Select one course*
- Natural Sciences – *Select two courses from different disciplines, one must be a lab course*
- Social Sciences – *Select two courses, each from a different discipline*

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website at the institution you are considering for transfer.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
Major Required Course
MTA English Composition
MTA Mathematics
Elective
Elective

Semester II
Major Required Course
MTA English Composition (second course) or Communication
MTA Natural Sciences
Elective
Elective

Semester III
Major Required Course
MTA Humanities and Fine Arts
MTA Natural Sciences
MTA Social Sciences
Elective

Semester IV
Major Required Course (if needed)
MTA Humanities and Fine Arts
MTA Social Sciences
Elective (if needed)

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Transfer Studies A.S.

Curriculum Code: 1782

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is a customized program of study for students pursuing transfer into a major that LCC does not offer. Many of our degrees can lead to transfer into a variety of majors. Consult with an academic advisor to choose the pathway that best meets your employment and/or transfer goals. Students intending to declare this program need initial approval from an academic advisor and then final approval from Academic Affairs. For advising options, see the [Academic Advising webpage](#).

Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). Transfer students are strongly encouraged to apply for this certificate along with their degree. General education and subject area requirements may vary from one college or university to another. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Milestone

Completion of the required Math and English courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Prior to beginning this program, students must meet with an academic advisor in the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses – Option A

Select 12 credits from the course codes list below and numbered 120 to 294. Credits may come from a combination of these course codes, or a combination of Option A and Option B courses. These courses should be from an area you expect to pursue as a major in your bachelor's degree program. For course selections, speak with an advisor or consult the program website at the institution you are considering for transfer.

- ASTR
- BIOL (except 275 and 276)
- CHEM
- CITN (except 222, 227, 229, 239, and 253)
- CPSC
- GEOL
- ISCI (except 245)
- PHYS
- STAT

Major Required Courses – Option B

Select 12 credits from the course codes listed below. Credits may come from a combination of these course codes, or a combination of Option A and Option B courses.

- ANTH 275 and 280
- CITP courses numbered 110, 130, 150, 180, 190, 230, 235, 250, 280, and 290
- GEOG 206 and 220
- MATH courses numbered 119 to 294
- PFKN courses numbered 170, 200, 205, 208, 210, 250, and 260
- PFHW 123

General Education - Transfer Degrees (MTA)

Beyond the Major credit taken above, complete a minimum of 30 credits from the [General Education](#) for Transfer Degrees

- English Composition – *Select one course*
- English Composition (second course) or Communication – *Select one course*
- Humanities and Fine Arts – *Select two courses, each from a different discipline*
- Mathematics – *Select one course*
- Natural Sciences – *Select two courses from different disciplines, one must be a lab course*
- Social Sciences – *Select two courses, each from a different discipline*

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credits / 60 billing hours

Recommended Course Sequence

Semester I
Program of Study Required Course
MTA English Composition
MTA Mathematics
Elective
Elective

Semester II
Program of Study Required Course
MTA English Composition (second course) or Communication
MTA Natural Sciences
Elective
Elective

Semester III
Program of Study Required Course
MTA Humanities and Fine Arts
MTA Natural Sciences
MTA Social Sciences
Elective

Semester IV
Program of Study Required Course (if needed)
MTA Humanities and Fine Arts
MTA Social Sciences
Elective(s) as needed for the total credits

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Transfer Studies C.A.

Curriculum Code: 1482

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who intend to transfer to a four-year college or university to pursue a bachelor's degree. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan.

Milestone

Completion of the English and Math courses with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Prior to beginning this program, students should meet with an academic advisor in the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

General Education – Transfer (MTA) Courses, Recommended Choices

(For the full list of options, see [General Education](#))

- English Composition – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course) or Communication – *Select one*
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
COMM 130, Fundamentals Public Speaking, 3 credits / 3 billing hours
- Humanities and Fine Arts – *Select two, each from a different discipline*
ARTH 211, Art History to the Renaissance, 4 credits / 4 billing hours
ARTH 212, Art Hist from the Renaissance, 4 credits / 4 billing hours
ENGL 211, World Literature I, 4 credits / 4 billing hours
ENGL 212, World Literature II, 4 credits / 4 billing hours
HIST 211, U.S. History to 1877, 4 credits / 4 billing hours
HIST 212, U.S. History: 1877 to Present, 4 credits / 4 billing hours
HUMS 223, The Western World to 1500, 4 credits / 4 billing hours
HUMS 224, The Western World since 1500, 4 credits / 4 billing hours
PHIL 151, Intro to Logic & Critical Think, 4 credits / 4 billing hours
RELG 150, Intro to World Religions, 4 credits / 4 billing hours
SPAN 121, Elementary Spanish I, 4 credits / 4 billing hours

- Mathematics – *Select one*
MATH 119, Math - Applications for Living, 4 credits / 4 billing hours
MATH 120, College Algebra, 4 credits / 4 billing hours
MATH 126, Precalculus, 5 credits / 5 billing hours
STAT 170, Introduction to Statistics, 4 credits / 4 billing hours
STAT 215, Intro to Probability and Stats, 4 credits / 4 billing hours
- Natural Sciences – *Select two, each from a different discipline; one must be a **lab** course*
ASTR 201, Introductory Astronomy, 4 credits / 5 billing hours
BIOL 120, Environmental Science, 4 credits / 6 billing hours
BIOL 125, Intro Biology for Non-Majors, 4 credits / 6 billing hours
BIOL 127, Cell Biology, 4 credits / 6 billing hours
CHEM 135, Chemistry in Society, 4 credits / 5 billing hours
CHEM 151 and **161**, General Chemistry I Lecture/Lab, 5 credits / 7 billing hours
GEOG 206, Physical Geography, 4 credits / 4 billing hours
GEOL 221, Physical Geology, 4 credits / 6 billing hours
GEOL 230, Environmental Geology, 4 credits / 6 billing hours
ISCI 131, Integrated Physical Science, 4 credits / 6 billing hours
PFHW 123, Human Nutrition, 3 credits / 3 billing hours
PHYS 120, The Art of Physics, 4 credits / 5 billing hours
PHYS 251, Physics I with Calculus, 5 credits / 7 billing hours
- Social Sciences – *Select two, each from a different discipline*
ANTH 270, Cultural Anthropology, 3 credits / 3 billing hours
ECON 120, Power, Authority and Exchange, 4 credits / 4 billing hours
ECON 201, Principles of Economics - Micro, 4 credits / 4 billing hours
GEOG 200, World Regional Geography, 4 credits / 4 billing hours
POLS 120, American Political System, 4 credits / 4 billing hours
PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

Minimum Total Credit Hours

33 credits / 33 billing hours

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for this Certificate of Achievement may select any course(s) from the [General Education Transfer Degrees \(MTA\)](#) to reach the 30 credits. Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Recommended Course Sequence

Semester I
MTA English Composition
MTA Mathematics
MTA Natural Sciences

Semester II
MTA English Composition (second course) or Communication
MTA Humanities and Fine Arts
MTA Social Sciences

Semester III
MTA Humanities and Fine Arts
MTA Natural Sciences
MTA Social Sciences

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Transportation Technologies GA

Career Community: Transportation Careers

Curriculum Code: 1850

Effective: Fall 2024 – Summer 2029

Purpose of the Major

This degree is designed to immerse students in the multifaceted world of transportation, focusing on key areas such as automotive maintenance, aviation maintenance, and heavy equipment maintenance. This program is structured to provide students with a comprehensive skill set that extends beyond traditional transportation boundaries, encompassing a diverse range of technical expertise crucial to the modern transportation landscape. Emphasizing practical applications and industry-relevant training, this degree program equips students with the skills needed to thrive in dynamic and demanding roles within the transportation field. Upon completion, graduates will be well-positioned to pursue careers in a broad spectrum of industries, from automotive and aviation to manufacturing and infrastructure maintenance.

Milestone

Completion of General Education courses in Math and English with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The Aviation Program requires acceptance into the program before a student can start courses. Students may take other courses on this pathway before beginning to apply to the Aviation Program. Please contact the program if you are interested, Mason Campus, telephone number 517-483-1406

Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Students completing this curriculum may also be eligible to apply for multiple certificates in the different specific technologies.

Contact Information

For further information, including about career options, course substitutions and waivers, etc., contact the Technical Trades Department, West Campus, Room M103, telephone number 517-483-1336, or the Aviation Center, Mason, telephone number 517-483-1406 or Student Services, West Campus, telephone number 517-483-5509.

Career Community Courses

These courses are required for all Transportation programs (Automotive, Aviation, and Heavy Equipment Repair). They should be taken before other Major Required or Limited Choice Courses. Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
AUTM 102 or DCTM 102 or TECH 102	Automotive/Collision Safety Industrial/Construction Safety General Industry Safety	1 / 1 2 / 3 2 / 3
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking	3 / 3 3 / 3 3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics Math – Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future major areas:

- Automotive Technologies choose AUTM 102
- Aviation Maintenance Technology or Powerplant Maintenance Technology contact the department for information.
- Heavy Equipment Repair choose TECH 102 or DCTM 102

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

Major Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab - Select one as recommended or select one from [LCC General Education Applied Degrees](#): Natural Sciences or Applied Sciences and Technology Lab. A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

Major Required Courses, Limited Choice

Select a minimum of 38 credits. Work with an Academic Advisor or Program Advisor to select the most appropriate courses or to select a field-specific major or transfer major that meets your educational and career goals. A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)

Course Code	Course Title	Credit / Billing Hours
AUTM 111	Automotive Electrical I	4 / 6
AUTM 113	Automotive Electrical II	4 / 6
AUTM 125	Manual Drive Train and Axles	4 / 6
AUTM 126	Automatic Transmissions	4 / 6
AUTM 131	Automotive Engine Repair	4 / 6
AUTM 141	Braking Systems and ABS	4 / 6
AUTM 151	Suspension and Steering	4 / 6
AUTM 161	Auto Heating/Air Conditioning	4 / 6
AUTM 180	Intro to Alternative Fuels	2 / 2
AUTM 211	Automotive Electrical III	4 / 6
AUTM 270	Gas Eng Drivability Diagnosis	4 / 6
AUTM 273	Lt. Diesel Drivability Diag.	4 / 6
AUTM 275	Ignition/Emission Sys Diag.	4 / 6
AUTM 284	Hybrid Systems & Maintenance	4 / 6
AVGM 111	Aviation General I	4 / 5

Course Code	Course Title	Credit / Billing Hours
AVGM 112	Aviation General II	6 / 8
HERT 110	Equipment Introduction	5 / 5
HERT 120	Heavy Engine Rebuild	6 / 6
HERT 125	Heavy Equipment Electronics	5 / 5
HERT 130	Equipment Hydraulics	6 / 6
HERT 135	Diesel Fuel Systems	4 / 4
HERT 140	Equipment Powertrain	5 / 5
HERT 145	Equipment Service Writing	4 / 4
HERT 160	Equipment HVAC/Cab Controls	4 / 6
MGMT 150	Managing Customer Relations	3 / 3
WELD 103	Combination Welding	4 / 6

General Education – Applied Degrees

- English Composition or Applied English
Career Community Courses meet this requirement.
- English Composition (second course)/Communication
Career Community Courses meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses meet this requirement.
- Mathematics or Applied Mathematics
Career Community Courses meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Limited Choice Courses meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

60 credits / 61 billing hours

Recommended Course Sequence

College-ready Full-time

Semester I
ACAD 100
AUTM 102 or DCTM 102 or TECH 102
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice course(s) for students completing the Transportation GA

Semester II
COMM 110 or COMM 120 or COMM 130
MATH 115 or MATH 119 or MATH 120 or STAT 170
Limited Choice course(s) for students completing the Transportation GA

Semester III – Summer (Optional)
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab (if no Summer enrollment)
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester V
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

College-ready Part-time

Semester I
ACAD 100
AUTM 102 or DCTM 102 or TECH 102
ENGL 098 and NCAS 103 (if needed) or ENGL 099 (if needed), ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
MATH 115 or MATH 119 or MATH 120 or STAT 170

Semester II
COMM 110 or COMM 120 or COMM 130
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice course(s) for students completing the Transportation AAS

Semester III
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester IV
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

Semester V
Limited Choice course(s) for students completing the Transportation GA
Students who have decided on an academic program within the Transportation Career Community should select that program through the Change of Program Request form and follow the coursework outlined for the associated pathway.

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted



Ultrasound: Diagnostic Medical Sonography A.A.S.

Career Community: Health Careers

Curriculum Code: 0790

Effective: Summer 2025 – Summer 2027

Purpose of the Major

A Diagnostic Medical Sonographer provides patient services in a variety of medical settings using medical ultrasound under the supervision of a physician. Sonographers assist the physician in gathering sonographic data necessary to diagnose a variety of conditions and diseases. Sonographers obtain, review, and integrate patient history and supporting clinical data to facilitate optimum diagnostic results. They perform appropriate procedures and record anatomical, pathological, and/or physiological data as well as sonographic data and other pertinent observations made during the procedure for interpretation by a physician. They provide patient education related to medical ultrasound and promote principles of good health.

Milestone

In addition to the required General Education courses in Math and English, completion of IDMS 201 and IDMS 234 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The D.M.S. curriculum is an integrated six-semester program that incorporates didactic and clinical training designed to prepare the student for employment in the field of diagnostic medical sonography. The program is aligned with the standards and guidelines of the Joint Review Commission on Diagnostic Medical Sonography and is accredited by the Commission on Accreditation of Allied Health Education Programs (JRCDEMS-CAAHEP), 1361 Park Street, Clearwater, FL 33756. Graduates of the program are prepared for either the examination by the American Registry of Diagnostic Medical Sonographers (ARDMS) or the American Registry of Radiologic Technologists (ARRT).

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the college. All the courses in Semesters I and II are required for admission and must be completed by December 31st of the year prior to the April 1st D.M.S. Program admission application deadline. This includes: BIOL 145 or BIOL 201 and BIOL 202; MATH 120 (or higher) or STAT 170 or STAT 215; PHYS 120 or PHYS 200; and the General Education requirements including English Composition or Applied English, English Composition (second course)/Communications or Applied Communications, and Humanities and Fine Arts or Social Sciences or Applied Social Sciences requirements. This program admits once a year and starts every Summer semester (June).

A 2.5 minimum grade is required in all courses in this curriculum, including the General Education requirements, with the exception of PHYS 120 or PHYS 200 which requires a minimum 2.0 grade.

Contact Information

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including about career options, admission requirements, course substitutions and waivers, etc., contact the Diagnostic Medical Sonography program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Major Required Course for Admission, Limited Choice – English Composition

(second course)/Communication – *Select one. Minimum 2.5 grade required. This course will satisfy the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3
SIGN 160	Intro to the Deaf Community	3 / 3

Major Required Course for Admission, Limited Choice - Mathematics – *Select one.*

Minimum 2.5 grade required. This course will satisfy the General Education Mathematics or Applied Mathematics requirement. (Any course from the College Algebra area of the General Education Mathematics category may also be selected.)

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Major Required Course for Admission, Limited Choice – Natural Sciences Lab –

Select BIOL 145 or, BIOL 201 and BIOL 202. Minimum 2.5 grade required. This course will satisfy the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11 (total)

Major Required Course for Admission, Limited Choice – *Select one. Minimum 2.0 grade required.*

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5

Major Required Courses – *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
CHSE 120	Medical Terminology	4 / 4
IDMS 170	Intro to Ultrasound Knobology	2 / 3
IDMS 200	Sonographic Introduction	2 / 2
IDMS 201	General Sonography I: Abdomen	4 / 4
IDMS 202	OB/GYN Sonography I	4 / 4
IDMS 234	Sonographic Physics	2 / 2
IDMS 245	Sonographic Instrumentation	2 / 2
IDMS 265	General Sonography II	4 / 4
IDMS 266	OB/GYN Sonography II	4 / 4
IDMS 270	Sonographic Positioning I	2.5 / 4
IDMS 271	Sonographic Positioning II	1.5 / 2
IDMS 280	Clinical Experience I	6 / 6
IDMS 281	Clinical Experience II	8 / 8
IDMS 282	Clinical Experience III	7.5 / 7.5

General Education – Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English – *Select one. Minimum 2.5 grade required. This is a requirement for admission to the program; it can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 127, Business Writing, 3 credits / 3 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- English Composition (second course)/Communications or Applied Communications
Major Required Courses for Admission will meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one. Minimum 2.5 grade required. This is a requirement for admission to the program; it can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours
- Mathematics or Applied Mathematics
Major Required Courses for Admission will meet this requirement
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses for Admission will meet this requirement

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

75.5 credits / 81.5 billing hours

Recommended Course Sequence for Admission

Semester I (Fall)
Gen Ed – English Composition or Applied English
Program of Study Required Course for Admission – Mathematics
BIOL 145 or (BIOL 201 and BIOL 202)

Semester II (Spring)
Gen Ed – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
COMM 110, 120, 130, 240, or SIGN 160
PHYS 120 or PHYS 200

Required Course Sequence – Courses must be completed in the semester listed.

Semester III (Summer 2025)
CHSE 120
IDMS 170
IDMS 200
IDMS 270

Semester IV (Fall 2025)
IDMS 201 – Milestone course
IDMS 202
IDMS 234 – Milestone course
IDMS 271
IDMS 280

Semester V (Spring 2026)
IDMS 245
IDMS 265
IDMS 266
IDMS 281

Semester VI (Summer 2026)
IDMS 282

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Vascular Technology C.C.

Career Community: Health Careers

Curriculum Code: 1604

Effective: Fall 2025 – Summer 2027

Purpose of the Major

This certificate provides the didactic and applied instruction necessary for students to be competent in the specialty of Vascular Sonography. It includes the instructional component of the preparation that students need to take either the examination by the American Registry for Diagnostic Medical Sonography (ARDMS) or the American Registry of Radiologic Technologists (ARRT). Students must also seek clinical verification in order to sit for the registry exam.

Milestone

Completion of IDMS 250 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

Students must complete all courses with a minimum grade of 2.5 to receive this certificate.

To be eligible to participate in this curriculum students must have graduated from an accredited Diagnostic Medical Sonography program, or have RDMS (Registered Diagnostic Medical Sonographer) or R.T.(S)(ARRT) (Registered Technologist, Sonography) credentials.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Diagnostic Medical Sonography Program, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
IDMS 250	Vascular Technology I	6 / 6
IDMS 251	Vascular Technology II	6 / 6
IDMS 255	Vascular Scan Lab I	2.5 / 4
IDMS 256	Vascular Scan Lab II	2.5 / 4

Minimum Total Credit Hours

17 credits / 20 billing hours

Required Course Sequence

Semester I (Fall)
IDMS 250 – Milestone course
IDMS 255
Semester II (Spring)
IDMS 251
IDMS 256

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Veterinary Nursing A.A.S.

Career Community: Science and Mathematics

Curriculum Code: 0287

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Veterinary nurses are professionals dedicated to animal health care. They are vital members of the veterinary medical team and are trusted with diverse medical responsibilities, including animal nursing care, life support, laboratory specimen analysis, physical therapy, surgical assistance, anesthesia, dental hygiene, X-ray imaging, nutritional management, and client education. The variety in veterinary nursing makes it a challenging medical career for those who enjoy working with animals and people. Career opportunities exist with veterinary hospitals, biomedical research institutions, zoological parks, and other animal care facilities.

This program is offered through a joint agreement between Lansing Community College (LCC) and Michigan State University (MSU), with Major courses taught by MSU and General Education courses taught by LCC.

Milestone

Completion of the required General Education Math, English, and Science courses are key components for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses. See Additional Information below regarding MSU's grade requirements.

Additional Information

To be considered for admission to MSU's Certificate or Bachelors program, an applicant must have a minimum cumulative GPA of 2.75, a minimum Math and Science GPA of 2.5 (with a minimum of 2.0 in all prerequisite Math and Science courses), and a minimum GPA of 2.5 for the applicant's most recent 12 credits.

Additionally, a minimum grade of 2.0 is required for the Program of Study Required Course, Limited Choice areas of English Composition or Applied English, English Composition (second course)/Communication or Applied Communication, and Humanities and Fine Arts or Social Sciences or Applied Social Sciences.

MSU's admission is competitive. Please consult MSU College of Veterinary Medicine for application deadlines. Successful applicants would start attending classes at the MSU Veterinary School the following fall semester. Students are advised to have a strong background in biology, chemistry, algebra and writing. Students must seek at least 80 hours of experience in the veterinary clinical setting. This experience will help students form the foundation for career development and is part of MSU's admission requirements. Students planning to transfer should see an academic advisor before enrolling in any course.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Science Department, Arts & Sciences Building, Room 3203, telephone number 517-483-1092 or the [MSU Veterinary Nursing Program](#), or the Center for Academic and Career Pathways – GB StarZone, telephone number 517-483-1904.

Major Required Course, Limited Choice - English Composition or Applied English

– *Select one*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 132	Honors Composition II	4 / 4

Major Required Course, Limited Choice - English Composition (second course)/Communication or Applied Communication – *Select one*

Course Code	Course Title	Credit / Billing Hours
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Major Required Course, Limited Choice, Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*

Course Code	Course Title	Credit / Billing Hours
ECON 120	Power, Authority and Exchange	4 / 4
GEOG 200	World Regional Geography	4 / 4
HUMS 160	Mythology	4 / 4
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MUSC 240	Musical Cultures to 1750	4 / 4
MUSC 241	Musical Cultures 1750-Present	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	4 / 4
PHIL 212	Philosophy: Modern & Contemporary	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

Major Required Course, Limited Choice, Mathematics or Applied Mathematics – *Select one*

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
MATH 126	Precalculus	5 / 5
MATH 151	Calculus I	4 / 4

Major Required Course, Limited Choice, Natural Sciences Lab or Applied Sciences and Technology Lab – *Select one*

Course Code	Course Title	Credit / Billing Hours
BIOL 121	Biol Foundation for Physiology	4 / 6
BIOL 127	Cell Biology	4 / 6

Note: BIOL 127 is highly recommended for this degree.

MSU Veterinary Nursing Courses

Forty-three (43) credits from the Veterinary Nursing Certificate of Completion from Michigan State University and fifteen (15) credits of veterinary clinical clerkship.

Institutional Requirements

Choose an appropriate Lansing Community College course or courses so the total number of credits taken at LCC is 15 or more per college policy, and so at least 60 credits are earned toward the degree. Part of this requirement may automatically be fulfilled if a student completes 15 or more credits of the Program of Study Required Courses at LCC.

General Education – Applied Degrees

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course) or Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

62 credit hours/ 21 billing hours

Recommended Course Sequence

(Sequence may be determined based on prerequisites for the courses. To obtain current prerequisite information, search for the course in Banner and select “View Catalog Entry”.)

Semester I
Limited Choice English Composition or Applied English Limited Choice Mathematics or Applied Mathematics Limited Choice Natural Sciences Lab or Applied Sciences or Technology Lab
Semester II
Limited Choice English Composition (second course) or Communication or Applied Communication Limited Choice Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Semester III
Veterinary Nursing courses from MSU
Semester IV
Veterinary Nursing courses from MSU
Semester V
Veterinary Nursing courses from MSU
Semester VI
Veterinary Nursing courses from MSU
Semester VII
Internship

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Web Site Developer C.C.

Career Community: Computer Technology and Networking

Curriculum Code: 0843

Effective: Fall 2025 – Summer 2030

Purpose of the Major

The Web Site Developer certificate provides students with the technical skills necessary to use the internet as an effective business resource, including building and maintaining commercial websites. This program of study is designed for students who already have basic computer skills and want to specialize in internet technology and, web site design and development. This certificate can be completed entirely online. The course work can be applied toward completion of the E-Business Associate of Business Degree (0839).

Milestone

Completion of CITW 160 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Computer Information Technologies Program at the West Campus Building, Room M103, telephone number 517-267-6406 or Student Services West Campus, West Campus Building, Room M016, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
CITW 150	Internet Literacy	3 / 3
CITW 160	Web Development HTML & CSS	3 / 3
CITW 165	Web Development JavaScript	3 / 3
CITW 175	Web Site Management	3 / 3

Major Required Courses, Limited Choice – *Select four credits*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
CITP 110	Intro to Programming-Python	4 / 4
CITP 130	Intro to Mobile App Devel	3 / 3
CITW 185	Web Development PHP & MySQL	4 / 4

Minimum Total Credit Hours

16 credits / 16 billing hours

Recommended Course Sequence

Semester I
CITW 150
CITW 160 – Milestone course
Limited Choice

Semester II
CITW 165
CITW 175

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Welding Technology A.A.S.

Career Community: Electrical and Manufacturing

Curriculum Code: 0186

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Welding is many processes of fusion, adhesion, and cutting to fabricate or repair products used in manufacturing, research and application. A welding technician could also qualify for welding inspection where welding codes are applied. A welder is a skilled craftsman with a basic knowledge of metals, applied mathematics, blueprint reading, good eyesight, self-discipline and a respect for safety. A welder also needs to work well with his/her hands and have good manual coordination. Many hours of practice and proper training in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting, and plasma cutting are necessary. Welders can be found in tool and die industries, automakers, construction, oil refineries, pipelines and pressure vessels, aircraft industries and many more metal-related industries. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

Milestone

In addition to the required General Education courses in Math and English, completion of WELD 103 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in the courses.

Additional Information

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. Either of these courses will fulfill the prerequisite for METS 140 and ELTE 108 and ELTE 109.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses – A minimum grade of 2.0 is required for General Education courses.

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
COMM 110 or COMM 120 or COMM 130 or COMM 200 or	Communication in the Workplace Dynamics of Communication Fundamentals Public Speaking Small Group Communication	3 / 3 3 / 3 3 / 3 3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126	Electrical Mathematics Technical Mathematics Math – Applications for Living College Algebra Precalculus	5 / 6 4 / 4 4 / 4 4 / 4 5 / 5
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I Technical Writing Business Writing Honors Composition I	4 / 4 3 / 3 3 / 3 4 / 4
METM 108	Machine Tool Operations	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METS 140	Rigging	3 / 4.5
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 110	Gas Metal ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6
WELD 125	Structural Print Reading/ Weld	2 / 2
WELD 201	Tool and Die Welding	3 / 4.5
WELD 205	Pipe Welding	4 / 6
WELD 220	Structural Fab & Inspection	4 / 6

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119, MATH 120, or MATH 126.

Major Required Courses – Limited Choices Courses – *Select 2 courses*

Course Code	Course Title	Credit / Billing Hours
ELTE 110	Practical Electricity	4 / 6
METM 100	Manufacturing Processes	3 / 4.5
WELD 115	Robotic MIG Welding	4 / 6
WELD 250	Welding Internship	3 / 3

Major Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences - *Select one course as recommended or select one from [LCC General Education Applied Degrees](#): Humanities and Fine Arts or Social Sciences or Applied Social Sciences. A minimum grade of 2.0 is required for each General Education course.*

Course Code	Course Title	Credit / Billing Hours
GEOG 200	World Regional Geography	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose GEOG 200 or SOCL 120.

General Education - Applied Degree, Recommended Courses

- English Composition or Applied English
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab
Major Required Courses will meet this requirement.

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

61 credits / 82.5 billing hours

Recommended Course Sequence

Semester I
ACAD 100
METM 108
METS 140
TECH 102
WELD 103 – Milestone course
WELD 110

Semester II
METM 190
WELD 105
WELD 111
WELD 125

Semester III
ELTE 121 or MATH 115 or MATH 119 or MATH 120 or MATH 126
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
WELD 201
WELD 220
Limited Choice

Semester IV
COMM 110 or COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
WELD 205
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Welding Technology C.A.

Career Community: Electrical and Manufacturing

Curriculum Code: 0156

Effective: Fall 2025 – Summer 2030

Purpose of the Major

Students receive hands-on instruction in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting, and plasma cutting to prepare them for entry-level positions.

Milestone

Completion of WELD 103 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for METS 140.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
METM 190	Metallurgy and Heat Treatment	4 / 6
METS 140	Rigging	3 / 4.5
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 110	Gas Metal ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6
WELD 125	Structural Print Reading/Weld	2 / 2
WELD 220	Structural Fab & Inspection	4 / 6

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

31 credits / 45.5 billing hours

Recommended Course Sequence

Semester I
TECH 102
WELD 103 – Milestone course
WELD 110
Semester II
WELD 105
WELD 111
WELD 125
Semester III
METM 190
METS 140
WELD 220

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



Welding Technology C.C.

Career Community: Electrical and Manufacturing

Curriculum Code: 1356

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This certificate is designed to provide the basic skills needed for entry-level welding. Students following this program will learn how to perform Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (MIG) and Gas Tungsten Arc Welding (TIG). Welders can be found in tool and die industries, automobile manufacturing, construction industries, oil refineries, pipeline and pressure vessel industries, aircraft industries, and many more metal-related industries. All of the coursework may be applied toward the Welding Technology Certificate of Achievement and the Welding Technology Associate of Applied Science Degree.

Milestone

Completion of WELD 103 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in this course is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in this course.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, email manufacturing@lcc.edu or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Major Required Courses

Course Code	Course Title	Credit / Billing Hours
TECH 102	General Industry Safety	2 / 3
WELD 103	Combination Welding	4 / 6
WELD 105	Advanced ARC Welding	4 / 6
WELD 110	Gas Metal ARC Welding	4 / 6
WELD 111	Gas Tungsten ARC Welding	4 / 6

Minimum Total Credit Hours

18 credits / 27 billing hours

Recommended Course Sequence

Semester I
TECH 102
WELD 103 – Milestone course
WELD 110

Semester II
WELD 105
WELD 111

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



World Language A.A.

Career Community: Communication, Journalism, and Language

Curriculum Code: 0132

Effective: Fall 2025 – Summer 2030

Purpose of the Major

This degree is designed for students who plan to transfer to a four-year institution to pursue a baccalaureate degree in the area of World Language in a variety of concentrations or who plan to pursue secondary education certification in a World Language to teach in Michigan public schools. Students completing this degree will also satisfy the Michigan Transfer Agreement (MTA) requirements for General Education between two and four-year institutions in Michigan and will qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution and may also complete coursework for a Communication and Language, Enhanced AAA degree. The Communication and Language, Enhanced AAA option allows students to transfer additional credits toward the Bachelor's degree.

Milestone

In addition to the required Math and English courses, completion of 100-level World Language classes with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A minimum grade of 2.0 is required in all courses.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Communication and the Arts Department, Gannon Building, Room 1222, telephone number 517-483-1546.

Major Required Courses – *Some courses meet General Education requirements for MTA. A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
ANTH 270	Cultural Anthropology	3 / 3
COMM 120 or	Dynamics of Communication	3 / 3
COMM 130 or	Fundamentals Public Speaking	3 / 3
COMM 200 or	Small Group Communication	3 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
JAPN 121 or SPAN 121	Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4
JAPN 122 or SPAN 122	Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4
JAPN 201 or SPAN 201	Intermediate Japanese I Intermediate Spanish I	4 / 4 4 / 4
JAPN 202 or SPAN 202	Intermediate Japanese II Intermediate Spanish II	4 / 4 4 / 4
MATH 119 or MATH 120 or STAT 170	Math - Applications for Living College Algebra Introduction to Statistics	4 / 4 4 / 4 4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought, or
- For Health Careers students, successful completion of CHSE 100.

Students wishing to waive ACAD 100 should contact their advisor.

For future transfer to:

- Central Michigan University choose COMM 130, MATH 119 or MATH 120, and SPAN 121.
- Eastern Michigan University choose ENGL 122 or ENGL 132, JAPN 121 or SPAN 121, and MATH 120.
- Ferris State University choose COMM 130, MATH 119 or MATH 120, and SPAN 121.
- Grand Valley State University choose COMM 130, SPAN 121, and MATH 120.
- Michigan State University choose COMM 130, JAPN 121 or SPAN 121, and MATH 119 or MATH 120.
- Western Michigan University choose ENGL 122 or ENGL 132, JAPN 121 or SPAN 121, and MATH 119.

Major Required Courses, Limited Choice – Humanities and Fine Arts – *Select one course from a different discipline than the Humanities and Fine Arts course selected from the Major Required Courses listed above (JAPN or SPAN). Only one world language course will meet the General Education requirement. If a specific course is not indicated in the notes below, choose any recommended course below or choose from [General Education Transfer \(MTA\): Humanities and Fine Arts](#)*

Course Code	Course Title	Credit / Billing Hours
ARTS 102	2D Design	3 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 160	U.S. History: 1877 to Present	4 / 4
PHIL 101	Introduction to Philosophy	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
PHIL 152	Introduction to Ethics	4 / 4
RELG 150	Intro to World Religions	4 / 4

Major Required Courses, Limited Choice – Natural Sciences – *Select 2 courses from different disciplines, as indicated for each transfer institution and major. One must be a lab course. If specific courses are not indicated, select any two courses from different disciplines from [LCC General Education: MTA, Natural Sciences](#).*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
BIOL 125	Intro Biology for Non-Majors	4 / 6
CHEM 135	Chemistry in Society	4 / 5
GEOG 206	Physical Geography	4 / 4
GEOG 220	Weather, Forecasting & Climate	4 / 4
GEOL 221	Physical Geology	4 / 6
GEOL 222	Historical Geology	4 / 6
GEOL 230	Environmental Geology	4 / 6
ISCI 121	Physical Science Concepts	4 / 6
PFHW 123	Human Nutrition	3 / 3
PHYS 120	The Art of Physics	4 / 5

Note: For future transfer to Central Michigan University choose BIOL 120 and any non-BIOL course.

Program of Study Required Courses, Limited Choice – Social Sciences - *Select one course from a different discipline than ANTH, as indicated for each major and institution. If specific courses are not indicated, select any two courses from two different disciplines. Students considering the possibility of adding World Language K-12 Certification at some point in the future are strongly encouraged to select the courses indicated for each transfer institution. These selections will satisfy requirements for admission to the Teacher Education program, required for certification, as well as satisfying Social Science General Education requirements and will prevent possible delay in degree completion.*

Course Code	Course Title	Credit / Billing Hours
COMM 270	Mass Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
EDUC 204	Educational Psychology	3 / 3
EDUC 220	Foundations of Education	3 / 3
POLS 201	Intro to Political Science	3 / 3
POLS 260	Comparative Political Systems	3 / 3
POLS 270	International Relations	3 / 3
PSYC 200	Introduction to Psychology	4 / 4
SOCL 120	Introduction to Sociology	4 / 4

For future transfer to:

- Eastern Michigan University (Japanese with Language and International Trade Concentration; Spanish with Language and International Careers Concentration) choose POLS 201 or POLS 260 or POLS 270.
- Eastern Michigan University (K-12 Certification in Japanese or Spanish) choose EDUC 204 or PSYC 200.
- Ferris State University (Spanish for the Professions) choose POLS 270 or SOCL 120.
- Grand Valley State University (K-12 Certification in Spanish) choose EDUC 220 or PSYC 200.
- Michigan State University (K-12 Certification in Japanese or Spanish) choose EDUC 204 or PSYC 200.
- Western Michigan University (Pre-teacher education for K-12 Certification in Japanese or Spanish) choose EDUC 220 or PSYC 200.

General Education – Transfer Degrees

- English Composition
Major Required Courses meet this requirement.
- English Composition (second course) or Communication
Major Required Courses meet this requirement.
- Humanities and Fine Arts
Major Required and Limited Choice Courses meet this requirement.
- Mathematics
Major Required Courses meet this requirement.
- Natural Sciences
Major Required Limited Choice Courses meet this requirement.

- Social Sciences
Major Required and Limited Choice Courses meet this requirement.

Elective Courses, Recommended Choices – *Select courses as needed to reach the 60 credits required for the degree. See notes below for specific courses for each transfer institution and future minor. Choose courses from areas like English, Communication, Business, Political Science (areas that are often paired with a World Language major) which may include up to 16 hours in a second World Language. A minimum of 2.0 is required to meet degree requirements for General Education and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.) For the full list of options, see [AA and AS Degree Electives](#).*

Course Code	Course Title	Credit / Billing Hours
COMM 260	Nonverbal Communication	3 / 3
COMM 280	Intercultural Communication	3 / 3
EDUC 230	Exceptional Learners	3 / 3
ENGL 122 or ENGL 132	Composition II Honors Composition II	4 / 4 4 / 4
GRMN 121 or JAPN 121 or SPAN 121	Elementary German I Elementary Japanese I Elementary Spanish I	4 / 4 4 / 4 4 / 4
GRMN 122 or JAPN 122 or SPAN 122	Elementary German II Elementary Japanese II Elementary Spanish II	4 / 4 4 / 4 4 / 4
JAPN 201 or SPAN 201	Intermediate Japanese I Intermediate Spanish I	4 / 4 4 / 4
JAPN 202 or SPAN 202	Intermediate Japanese II Intermediate Spanish II	4 / 4 4 / 4
PSYC 205	Human Growth and Development	3 / 3
PSYC 221	Child Psychology	3 / 3

For future transfer to:

- Central Michigan University (BA in Spanish) choose ENGL 122 or ENGL 132 and twelve credits from any Elective course.
- Eastern Michigan University (Japanese with Language and International Trade Concentration; Spanish with Language and International Careers Concentration) choose COMM 260 or COMM 280 and 12 credits from any combination of World Language courses.
- Eastern Michigan University (K-12 Certification in Japanese or Spanish) choose EDUC 230, PSYC 205, and 9 credits from any combination of World Language courses.
- Ferris State University (Spanish for the Professions) choose COMM 280, ENGL 122 or ENGL 132, and 9 credits from any combination of World Language courses.
- Grand Valley State University choose PSYC 221 and 9 credits from any combination of World Language courses.

- Michigan State University (Japanese or Spanish or K-12 Certification in Japanese or Spanish) choose 16 credits from any combination of World Language courses.
- Western Michigan University (Japanese or Spanish or Pre-teacher education for K-12 Certification in Japanese or Spanish) choose 16 credits from any combination of World Language courses.

Minimum Total Credit Hours

60 credit hours / 60 billing hours

Recommend Course Sequence

Semester I
ACAD 100
ANTH 270
ENGL 121 or ENGL 131
JAPN 121 or SPAN 121 – Milestone course

Semester II
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
JAPN 122 or SPAN 122 – Milestone course
MATH 119 or MATH 120 or STAT 170
Limited Choice – Humanities and Fine Arts

Semester III
JAPN 201 or SPAN 201
Limited Choice – Natural Sciences
Limited Choice – Social Sciences
Electives as needed

Semester IV
JAPN 202 or SPAN 202
Limited Choice – Natural Sciences
Electives as needed

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.



2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ACAD 100	First-Year Experience	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
ACCG 101	Accounting Info for Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ACCG 160	Payroll Systems and Taxes	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
ACCG 161	Accounting with Quickbooks	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
ACCG 210	Principles of Financial Accg	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$112	\$0
ACCG 211	Principles of Managerial Accg	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$92	\$0
ACCG 215	Financial Data Analytics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ACCG 220	Intermediate Accounting I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ACCG 221	Intermediate Accounting II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ACCG 230	Cost/Managerial I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ACCG 240	Federal Income Tax I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$65	\$0
ACCG 241	Federal Income Tax II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$65	\$0
ACCG 245	Accounting Internship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
ACCG 260	Accounting Systems	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ACCG 271	Principles of Finance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ACCG 280	Governmental Accounting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ACCG 290	Auditing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
AEET 275	Sustainable Building Design	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$145	\$0
AEET 280	Alternative Energy Practicum	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
AERO 110	USAF Heritage & Values I-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
AERO 111	USAF Heritage & Values I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
AERO 112	USAF Heritage & Values II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
AERO 113	USAF Heritage & Values II-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
AERO 210	USAF Team & Ldrshp Fund I-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
AERO 211	USAF Team & Leadership Fund I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
AERO 212	USAF Team & Leadership Fund II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
AERO 213	USAF Team/Leadrsdp Fund II-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
ANTH 120	Introduction to Anthropology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 270	Cultural Anthropology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 271	Medical Anthropology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 272	Food and Sustainability	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 275	Biological Anthropology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ANTH 276	Introduction to Archaeology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 280	Forensic Anthropology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ANTH 300	Applied Field Survey Methods	4 to 8	\$480-\$960	\$960-\$1,920	\$1,440-\$2,880	\$1,680-\$3,360	\$240-\$480	\$25	\$60-\$120		
APPR 170	Inside Wireman Apprentice 1-A	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 171	Inside Wireman Apprentice 1-B	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 172	Inside Wireman Apprentice 1-C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
APPR 173	Inside Wireman Apprentice 2-A	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 174	Inside Wireman Apprentice 2-B	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 175	Inside Wireman Apprentice 2-C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 176	Inside Wireman Apprentice 3-A	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 177	Inside Wireman Apprentice 3-B	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 178	Inside Wireman Apprentice 3-C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 179	Inside Wireman Apprentice 4-A	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 180	Inside Wireman Apprentice 4-B	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 181	Inside Wireman Apprentice 4-C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 182	Inside Wireman Apprentice 5-A	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 183	Inside Wireman Apprentice 5-B	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
APPR 184	Inside Wireman Apprentice 5-C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARCH 105	Architecture Appreciation	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$85	\$0
ARCH 107	Sustainable Site Design	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$75	\$0
ARCH 110	Visual Communications I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$70	\$0
ARCH 111	Arch Design Fundamentals	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$95	\$0
ARCH 113	Materials & Methods of Constr.	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$158	\$0
ARCH 114	Architectural Drawing/CAD I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$155	\$0
ARCH 118	Architecture Design/Planning	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$95	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ARCH 120	Visual Communications II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$70	\$0
ARCH 124	Architectural Drawing/CAD II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$155	\$0
ARCH 125	Environmental Systems	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$50	\$0
ARCH 126	Architecture Model Building	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$100	\$0
ARCH 141	History of Architecture I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$45	\$0
ARCH 142	History of Architecture II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$45	\$0
ARCH 146	Preservation/Adaptive Use Arch	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$55	\$0
ARCH 218	Commercial Arch Planning	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$155	\$0
ARCH 220	Commercial Arch Drawing	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$165	\$0
ARCH 233	Revit Architecture BIM I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$180	\$0
ARCH 235	Arch AutoCAD Independent Study	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$12-\$60		
ARCH 243	Revit Architecture BIM II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$180	\$0
ARCH 275	Sustainable Building Design	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$135	\$0
ARCH 290	Architectural Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
ARCH 295	Arch Independent Study	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$12-\$60		
ARTH 120	Masterpieces of Art & Music	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARTH 211	Art History to the Renaissance	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARTH 212	Art Hist from the Renaissance	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARTH 216	Contemporary Art	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ARTS 102	2D Design	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
ARTS 103	3D Design	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$35	\$0
ARTS 131	Drawing I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$8	\$0
ARTS 132	Figure Drawing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$53	\$0
ARTS 151	Color	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$30	\$0
ARTS 153	Drawing II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$19	\$0
ARTS 162	Type Communications	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$80	\$0
ARTS 164	Digital Illustration	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
ARTS 171	Adobe Photoshop	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$24	\$0
ARTS 173	Web Design I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$29	\$0
ARTS 175	Creative Design and Publishing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$79	\$0
ARTS 179	Web Design II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$35	\$0
ARTS 183	Design History	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$30	\$0
ARTS 195	Employ/Busn Issues for Artists	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$3	\$0
ARTS 200	Painting I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$15	\$0
ARTS 201	Painting II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$15	\$0
ARTS 202	Design for Innovation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARTS 226	Storyboards & Animatics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$30	\$0
ARTS 229	Web Design III	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ARTS 232	Comp Graphics/2D Animation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
ARTS 234	Comp Graphics/3D Animation I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$45	\$0
ARTS 235	Comp Graphics/3D Animation II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$45	\$0
ARTS 240	Art for Elementary Teachers	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$30	\$0
ARTS 251	Graphic Design Communications	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
ARTS 252	Graphic Design Publications	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
ARTS 253	Graphic Design Branding	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
ARTS 266	Figure Drawing II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$53	\$0
ARTS 267	Adv Drawing Digital Sketchbook	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ARTS 269	The Portfolio	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$70	\$0
ARTS 281	Art Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ASTR 201	Introductory Astronomy	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$50	\$0
AUTM 102	Automotive/Collision Safety	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$110	\$20
AUTM 111	Automotive Electrical I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$669	\$75
AUTM 113	Automotive Electrical II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$659	\$50
AUTM 125	Manual Drive Train and Axles	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$694	\$50
AUTM 126	Automatic Transmissions	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$718	\$50
AUTM 131	Automotive Engine Repair	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$794	\$50
AUTM 141	Braking Systems and ABS	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$744	\$75

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
AUTM 151	Suspension and Steering	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$754	\$50
AUTM 161	Auto Heating/Air Conditioning	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$778	\$50
AUTM 180	Intro to Alternative Fuels	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
AUTM 185	Automotive Special Topics	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
AUTM 211	Automotive Electrical III	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$696	\$50
AUTM 225	Transmissions and Drivelines	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$0	\$777
AUTM 270	Gas Eng Drivability Diagnosis	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$738	\$50
AUTM 273	Lt. Diesel Drivability Diag.	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$760	\$50
AUTM 275	Ignition/Emission Sys Diag.	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$737	\$50
AUTM 280	Electric/Fuel Cell Technology	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$699	\$40
AUTM 282	Gaseous Fuels	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$674	\$40
AUTM 284	Hybrid Systems & Maintenance	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$734	\$0
AUTM 286	High Voltage Battery Tech	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$764	\$0
AUTM 288	High Voltage Management	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$766	\$0
AUTM 290	Automotive Internship	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
AUTM 296	Automotive Independent Study	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
AUTM 298	Automotive Service Laboratory	4 to 9	\$480-\$1,080	\$960-\$2,160	\$1,440-\$3,240	\$1,680-\$3,780	\$240-540	\$25	\$60-135	\$280	\$0
AVAF 125	Aircraft Systems I	2.75	\$330	\$660	\$990	\$1,155	\$165	\$25	\$41	\$221	\$0
AVAF 126	Aircraft Systems II	8.25	\$990	\$1,980	\$2,970	\$3,465	\$495	\$25	\$124	\$391	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
AVAF 127	Aircraft Systems III	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$271	\$0
AVAF 134	Aircraft Instruments	2.75	\$330	\$660	\$990	\$1,155	\$165	\$25	\$41	\$231	\$0
AVAF 140	Aircraft Welding	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$409	\$0
AVAF 208	Aircraft Structures I	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$431	\$0
AVAF 209	Aircraft Structures II	5.75	\$690	\$1,380	\$2,070	\$2,415	\$345	\$25	\$86	\$411	\$0
AVAF 210	Aircraft Structures III	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$594	\$0
AVAF 211	Aircraft Electrical I	5.75	\$690	\$1,380	\$2,070	\$2,415	\$345	\$25	\$86	\$421	\$0
AVAF 212	Aircraft Electrical II	5.75	\$690	\$1,380	\$2,070	\$2,415	\$345	\$25	\$86	\$421	\$0
AVAF 246	Airframe Certification	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$191	\$0
AVAU 100	Drone Flight Orient.-FAA Exam	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$60	\$90
AVAU 150	Drone Maintenance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$70	\$380
AVAU 200	Advanced Drone Flight-Capstone	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$75
AVEL 202	Flight Line Testing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$486	\$0
AVGM 111	Aviation General I	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$291	\$0
AVGM 112	Aviation General II	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$366	\$0
AVGM 113	Aviation General III	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$431	\$0
AVGM 114	Materials and Processes	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$461	\$0
AVPP 241	Reciprocating Engine	11.25	\$1,350	\$2,700	\$4,050	\$4,725	\$675	\$25	\$169	\$591	\$0
AVPP 251	Reciprocating Engine Systems	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$266	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
AVPP 253	Reciprocating Ignition Systems	6.75	\$810	\$1,620	\$2,430	\$2,835	\$405	\$25	\$101	\$516	\$0
AVPP 255	Reciprocating Induction Sys	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$451	\$0
AVPP 257	Aircraft Propeller Systems	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$351	\$0
AVPP 259	Turbine Engine I	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$381	\$0
AVPP 261	Turbine Engine II	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$481	\$0
AVPP 263	Turbine Engine Systems	2.75	\$330	\$660	\$990	\$1,155	\$165	\$25	\$41	\$261	\$0
AVPP 265	Powerplant Instruments	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$241	\$0
AVPP 267	Powerplant Certification	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$281	\$0
BIOL 120	Environmental Science	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$41	\$0
BIOL 121	Biol Foundation for Physiology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$42	\$0
BIOL 125	Intro Biology for Non-Majors	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$77	\$0
BIOL 127	Cell Biology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$64	\$0
BIOL 128	Organismal Biology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$59	\$0
BIOL 145	Intro Anatomy and Physiology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$42	\$0
BIOL 201	Human Anatomy	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$44	\$0
BIOL 202	Human Physiology	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$42	\$0
BIOL 203	Microbiology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BIOL 204	Microbiology Laboratory	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$121	\$0
BIOL 210	Natural Resource Conservation	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$53	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
BIOL 260	Botany	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$74	\$0
BIOL 265	Zoology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$73	\$0
BIOL 270	Human Genetics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BIOL 275	Molecular Biology I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$119	\$0
BIOL 276	Molecular Biology II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$128	\$0
BLDT 120	Structural Framing	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$290	\$0
BLDT 130	Building Exterior Construction	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$290	\$0
BLDT 140	Building Interior Construction	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$340	\$0
BLDT 150	Intro Masonry/Concrete Const	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$550	\$0
BLDT 160	Steel Framing	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$240	\$0
BLDT 180	Builder Pre-Licensure Prep	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$25	\$0
BLDT 285	Residential Bldg Internship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
BUSN 118	Introduction to Business	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BUSN 150	Legal Issues: Start Small Busn	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
BUSN 201	International Business	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BUSN 250	Personal Finance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BUSN 251	Understanding Investments	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
BUSN 260	Starting a Business	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
BUSN 285	Business Admin Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CCOM 000	Core Communication	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
CGPD 000	Core Global Perspect & Divers	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
CHDV 100	Foundations Early Childhood Ed	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$144	\$0
CHDV 101	Child Growth/Develop: 0-12 Yrs	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$144	\$0
CHDV 111	Child Guidance/Communication	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$631	\$0
CHDV 122	Creativity and Play	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$144	\$0
CHDV 123	Literacy and Play	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$144	\$0
CHDV 124	Young Investigators: Math/Sci	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$144	\$0
CHDV 129	Caring for Youngest Learners	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$144	\$0
CHDV 132	Leadership Early Childhood Ed	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$144	\$0
CHDV 135	Inclusion for Every Learner	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$144	\$0
CHDV 215	Infant Toddler Program Dev	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$631	\$0
CHDV 220	Preschool Curriculum Approach	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$631	\$0
CHDV 222	Caring for School-Age Children	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$144	\$0
CHDV 230	Early Childhood Program Admin	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$144	\$0
CHDV 284	Early Childhood Practicum	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$700	\$0
CHDV 297	Child Dev Directed/Indep Study	0.25 to 4	\$30-\$480	\$60-\$960	\$90-\$1,440	\$105-\$1,680	\$15-\$240	\$25	\$3.75-\$60		
CHEM 120	Gen Organic & Biological Chem	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CHEM 125	Basic Chemistry	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CHEM 135	Chemistry in Society	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$70	\$0
CHEM 151	General Chemistry Lecture I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CHEM 152	General Chemistry Lecture II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CHEM 161	General Chemistry Lab I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$84	\$0
CHEM 162	General Chemistry Lab II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$79	\$0
CHEM 182	Introductory Organic Chemistry	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CHEM 192	Intro Organic Chem Lab	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$84	\$0
CHEM 251	Organic Chemistry Lecture I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CHEM 252	Organic Chemistry Lecture II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CHEM 255	Biological Chemistry	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CHEM 262	Quantitative Analysis	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$84	\$0
CHEM 272	Organic Chemistry Laboratory	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$131	\$0
CHSE 100	Intro to Health Professions	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$62	\$0
CHSE 108	Long-Term Care Nurse Aide	6.5	\$780	\$1,560	\$2,340	\$2,730	\$390	\$25	\$98	\$477	\$0
CHSE 109	LTC to AC Nurse Assistant/PCT	4.75	\$570	\$1,140	\$1,710	\$1,995	\$285	\$25	\$71	\$85	\$0
CHSE 114	Pathophysiology-Allied Health	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$62	\$0
CHSE 117	Health Law and Ethics	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$62	\$0
CHSE 119	Community Health Career Topics	0.25 to 11	\$30-\$1,320	\$60-\$2,640	\$90-\$3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
CHSE 120	Medical Terminology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$62	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CHSE 123	Medical Ins Billing/Coding I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$62	\$0
CHSE 124	Medical Ins Billing/Coding II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$62	\$0
CHSE 125	Comp-Med Ins Billing/Coding	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$82	\$0
CHSE 127	Medical Ins Billing/Coding III	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$178	\$0
CHSE 131	Electronic Hlth Records Intro	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$78	\$0
CHSE 133	Med Bill/Code Cert Exam Prep	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$62	\$0
CHSE 136	EKG Technician	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$170	\$0
CHSE 139	Community Health Career Topics	0.25 to 11	\$30-\$1,320	\$60-\$2,640	\$90-\$3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
CHSE 143	Phlebotomy Technician	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$202	\$0
CHSE 144	Phlebotomy Externship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$177	\$0
CHSE 150	CHSE Directed/Indep Study	0.25 to 7	\$30-\$840	\$60-\$1,680	\$90-\$2,520	\$105-\$2,940	\$15-\$420	\$25	\$3.75-\$105		
CHSE 151	Patient Care Technician	9.25	\$1,110	\$2,220	\$3,330	\$3,885	\$555	\$25	\$139	\$567	\$0
CHSE 235	Pharmacy Technician	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$186	\$0
CHSE 236	Pharmacy Technician Externship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$150	\$0
CITA 110	Intro to Microsoft Office	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 115	Microsoft PowerPoint	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 119	Microsoft Word	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 126	Microsoft Excel	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 133	Microsoft Access Database	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CITA 140	Microsoft Outlook	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 219	Advanced Microsoft Word	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITA 226	Microsoft Excel-Advanced	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITC 282	Ethical Hacking	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$75	\$0
CITC 285	System Defense	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$75	\$0
CITC 287	Cybersecurity Incident Respons	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITC 290	Cybersecurity Risk Management	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CITD 120	SQL Concepts	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITD 250	Database Concepts	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITF 110	Intro Computer Info Systems	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$10	\$0
CITF 120	Operating Systems Concepts	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITF 140	Information Technology Ethics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITF 240	IT Project Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$17	\$0
CITF 260	Systems Analysis and Design	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$22	\$0
CITI 100	AI Foundations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITI 120	Data Analysis with Python	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITI 140	Intro to Machine Learning	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITI 210	Natural Language Processing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITI 220	Computer Vision	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CITN 115	IoT & Automation Fundamentals	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$200	\$0
CITN 120	Networking Concepts	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$30	\$0
CITN 220	Introduction to Networks	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$45	\$0
CITN 222	Wireless Networking & Security	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$55	\$0
CITN 225	Switch Route Wireless Essentls	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$45	\$0
CITN 230	Linux Operating System	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITN 240	Ent Networking Sec Automation	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$315	\$0
CITN 244	Securing Networking Devices	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$125	\$0
CITN 250	Microsoft Network Server	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
CITN 280	IT Security Foundations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
CITO 100	Cloud Foundations with AWS	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITO 120	Cloud Architecting with AWS	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITO 140	Cloud Development Ops with AWS	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITO 240	Machine Learning with AWS	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITP 110	Intro to Programming - Python	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$22	\$0
CITP 130	Intro to Mobile App Devel	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITP 140	Software Testing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITP 150	Intro to VB.NET Programming	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITP 180	Intro to C#.NET Programming	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$2	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CITP 190	Intro to Programming in JAVA	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITP 220	Game Design & Development	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITP 230	Mobile App Devel for Android	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITP 235	Mobile App Devel for Apple	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITP 240	Advanced Software Testing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
CITP 250	Advanced VB.NET Programming	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$22	\$0
CITP 280	Advanced C#.NET Programming	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$22	\$0
CITP 290	Adv JAVA Programming for Busn	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$25	\$0
CITP 295	Programming Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CITS 110	Helpdesk Support Specialist	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITS 125	Computer Support: A+ Cert Prep	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$270	\$0
CITS 170	Basic Electronic for PC Repair	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$140	\$0
CITS 172	Intro to Basic Electronics	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$140	\$0
CITS 176	Computer Troubleshooting	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
CITS 225	Networking for PC Technicians	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$178	\$0
CITS 230	Computer Virtualization	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITS 285	IT Professional Internship	2 to 3	\$240-\$360	\$480-\$720	\$720-\$1,080	\$840-\$1,260	\$120-\$180	\$25	\$30-\$45		
CITW 150	Internet Literacy	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$12	\$0
CITW 160	Web Development HTML & CSS	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CITW 165	Web Development JavaScript	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITW 175	Web Site Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$15	\$0
CITW 180	Web Development ASP.NET	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CITW 185	Web Development PHP & MySQL	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CIVL 101	Civil Drafting	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$75	\$0
CIVL 110	Density Certification	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
CIVL 120	Surveying	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$135	\$0
CIVL 124	Route Survey	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$135	\$0
CIVL 131	Traffic Technology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$55	\$0
CIVL 135	Soils Technology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
CIVL 141	Site Inspection	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$30	\$0
CIVL 143	Site Dsgn & Layout/Civil Techn	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$65	\$0
CIVL 225	Civil Tech Independent Study	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
CIVL 241	Statics/Strength of Materials	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$25	\$0
CIVL 290	Civil Technology Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
CJUS 101	Intro to Criminal Justice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 102	Crime Causes and Conditions	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 103	Criminal Law	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 104	Theory of Patrol	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CJUS 106	Intro to Juvenile Justice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 126	Juvenile Offenders/Families	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 131	Introduction to Corrections	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 133	Juvenile Residential Services	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 134	Probation and Parole	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 135	Legal Issues in Corrections	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 201	Criminal Justice Org/Admin	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 203	Criminal Procedure	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 204	Criminal Investigation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CJUS 205	Policing into the 21st Century	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 207	Digital Evidence/1st Responder	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 210	Intro to Forensic Science	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$30	\$0
CJUS 245	Report Writing/Crim Justice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 247	Juvenile Justice: Special Pops	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 250	Correctional Institutions	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 251	Correctional Clients	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 255	Human Relations/Crim Justice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 270	Police Academy I	14	\$1,680	\$3,360	\$5,040	\$5,880	\$840	\$25	\$210	\$405	\$615
CJUS 271	Police Academy II	21	\$2,520	\$5,040	\$7,560	\$8,820	\$1,260	\$25	\$315	\$1,970	\$0

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2025 – 2026 Tuition and Course Fee Schedule

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CJUS 272	Local Corrections Academy I	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$60	\$0
CJUS 273	Local Corrections Academy II	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$240	\$0
CJUS 285	Law Enforcement Internship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
CJUS 286	Juvenile Internship I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CJUS 288	Corrections Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
CMTH 000	Core Mathematics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
COMM 110	Communication in the Workplace	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 120	Dynamics of Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 130	Fundamentals Public Speaking	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 200	Small Group Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 240	Interpersonal Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 260	Nonverbal Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 270	Mass Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
COMM 280	Intercultural Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
CPAR 250	Community Paramedicine I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$204	\$0
CPAR 251	Chronic Care in the Community	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$560	\$0
CPAR 252	Community Paramedicine II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$204	\$0
CPAR 270	Community Paramedic Clinical	6.5	\$780	\$1,560	\$2,340	\$2,730	\$390	\$25	\$98	\$1,119	\$0
CPSC 101	Intro to Computer Science	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
CPSC 230	Algorithms and Computing w/C++	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CPSC 231	Computing and Data Structures	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
CPSC 260	Computer Science Structures	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
CSCI 000	Core Science	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
CWRI 000	Core Writing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
DANC 100	Intro to Dance Techniques	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DANC 102	Beginning Modern	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DANC 103	Beginning Jazz	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DANC 290	Dance Studio Internship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
DCTM 100	Intro to the Built Environment	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
DCTM 101	Drafting/Intro to CAD	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$265	\$0
DCTM 102	Industrial/Construction Safety	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$45	\$0
DCTM 103	Codes and Specifications	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$140	\$0
DCTM 150	Civil Construction Materials	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$115	\$0
DCTM 200	Construction Management I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$230	\$0
DCTM 201	Construction Management II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$230	\$0
DCTM 210	MEP Equipment for Buildings	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DCTM 220	BIM for Construction	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$340	\$0
DENT 140	Oral Histology & Embryology	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$258	\$0

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DENT 142	PreClinical Dental Hygiene	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$258	\$0
DENT 144	PreClinic Dental Hyg Practice	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$1,798	\$1,200
DENT 146	Head, Neck & Oral Anatomy	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$545	\$0
DENT 148	Dental Radiography	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$555	\$0
DENT 152	Dental Hygiene I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$258	\$0
DENT 154	Clinical Dental Hygiene I	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$2,481	\$500
DENT 156	Nutrition	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$258	\$0
DENT 158	Dental Pharmacology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$258	\$0
DENT 161	Principles of Periodontics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$258	\$0
DENT 174	Clinical Dental Hygiene II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$1,629	\$0
DENT 176	Dental Materials & Methods	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$634	\$0
DENT 240	Anxiety & Pain Control Mgmt	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$683	\$0
DENT 242	Dental Hygiene III	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$288	\$0
DENT 244	Clinical Dental Hygiene III	12	\$1,440	\$2,880	\$4,320	\$5,040	\$720	\$25	\$180	\$3,635	\$350
DENT 247	Oral Pathology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$258	\$0
DENT 248	Dental Public Health & Educ	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$291	\$0
DENT 252	Dental Hygiene IV	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$258	\$0
DENT 254	Clinical Dental Hygiene IV	12	\$1,440	\$2,880	\$4,320	\$5,040	\$720	\$25	\$180	\$3,664	\$0
DENT 256	Community Oral Health	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$253	\$0

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DENT 270	Dental Hygiene Board Review	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$313	\$0
DENT 290	Directed Study	0.25 to 6	\$30-\$720	\$60-\$1,440	\$90-\$2,160	\$105-\$2,520	\$15-\$360	\$25	\$3.75-\$90		
DMAC 120	Intro to Audio Production	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
DMAC 130	Intro to Video Production	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
DMAC 131	Digital Cinematography I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$75	\$0
DMAC 132	Video Post-Production I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$45	\$0
DMAC 140	Pre-Production Design	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$110	\$0
DMAC 141	Ethics and Impact of the Media	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DMAC 222	Audio Recording II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$100	\$0
DMAC 231	Digital Cinematography II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$95	\$0
DMAC 232	Video Post-Production II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
DMAC 234	Studio Production Techniques	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$50	\$0
DMAC 240	Employment Issues in Media	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
DMAC 246	Workshop: Video	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$70	\$0
DMAC 255	Digital Presentation & Signage	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
DMAC 260	World Cinema	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
DMAC 295	Media/Cinema Portfolio	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
DMAC 296	Media/Cinema Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
DTSC 200	Principles of Data Science	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
DTSC 201	Data Science with Python	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ECON 120	Power, Authority and Exchange	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ECON 201	Principles of Economics-Micro	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ECON 202	Principles of Economics-Macro	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ECON 213	U.S. Economic/Business History	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ECON 260	Comparative Economic Systems	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
EDUC 204	Educational Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
EDUC 220	Foundations of Education	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
EDUC 226	Foundations of Literacy	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
EDUC 230	Exceptional Learners	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
EDUC 280	Teacher Education Practicum	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ELTA 105	Elect. Industry Orientation	0.5	\$60	\$120	\$180	\$210	\$30	\$25	\$8	\$10	\$0
ELTA 106	Basic Electrical Calculations	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$10	\$0
ELTA 120	AC Fundamentals - Electrician	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$71	\$13
ELTA 155	Transformer Fundamentals	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$97	\$0
ELTA 160	PLC Overview for Electricians	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$120	\$0
ELTA 180	Introduction to Fire Alarms	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$15	\$0
ELTE 104	Employee Worksite Basics	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$15	\$0
ELTE 108	Practical Electricity I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$74	\$6

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2025 – 2026
Tuition and Course Fee Schedule

			Tuition^							Course Fees	
Course Code	Course Title	Bill Hrs.	District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*	Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Refundable	Non-Refundable
ELTE 109	Practical Electricity II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$64	\$6
ELTE 110	Practical Electricity	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$140	\$12
ELTE 111	Intro to Industrial Automation	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$115	\$15
ELTE 112	Basic Wiring Installation	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$72	\$0
ELTE 121	Electrical Mathematics	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$97	\$0
ELTE 122	Industrial Control Electronics	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$116	\$0
ELTE 123	Motors and Transformers	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$130	\$0
ELTE 129	Machine Controls I - A	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$48	\$0
ELTE 130	Machine Controls I - B	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$72	\$0
ELTE 131	Machine Controls I	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$147	\$0
ELTE 132	Control Panel Assembly	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$481	\$0
ELTE 136	Digital Basics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$92	\$0
ELTE 141	National Electrical Code I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$41	\$0
ELTE 142	National Electrical Code II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$41	\$0
ELTE 145	Electrical Prints for Building	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$88	\$0
ELTE 147	National Electric Code Update	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$13	\$0
ELTE 150	Electric Motor Maintenance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$131	\$0
ELTE 154	Utility Prints and Diagrams	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$50	\$0
ELTE 156	Lineworker/Utility Rigging	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$10

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ELTE 173	Energy Industry Fundamentals I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$15	\$0
ELTE 174	Energy Industry Fundamental II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$15	\$0
ELTE 181	Pole Climbing I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$125	\$0
ELTE 182	Pole Climbing II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$130	\$0
ELTE 185	Pole Climbing Practice I	0.5	\$60	\$120	\$180	\$210	\$30	\$25	\$8	\$105	\$0
ELTE 232	Machine Controls II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$95	\$0
ELTE 251	Energy Generation & Control I	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$76	\$0
ELTE 252	Energy Generation & Control II	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$76	\$0
ELTE 255	Power Instrumentation	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$72	\$0
ELTE 260	Programmable Controllers I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$220	\$0
ELTE 261	Programmable Controllers II	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$220	\$0
ELTE 262	Programmable Controllers III	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$165	\$0
ELTE 270	Lineworker Fundamentals	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$60	\$0
ELTE 272	Electric Basic Line Climbing	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$385	\$80
ELTE 274	Ground/Utility Worker	9	\$1,080	\$2,160	\$3,240	\$3,780	\$540	\$25	\$135	\$690	\$0
ELTE 276	Energized Secondary Worker	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$595	\$0
ELTE 290	Electrical Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
ELTE 291	Electrical Project Lab	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
EMTA 100	Emergency Medical Responder	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$345	\$50

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2025 – 2026
Tuition and Course Fee Schedule

			Tuition^							Course Fees	
Course Code	Course Title	Bill Hrs.	District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*	Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Refundable	Non-Refundable
EMTA 121	EMT Medical Trauma	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$381	\$0
EMTA 122	EMT Skills	6.75	\$810	\$1,620	\$2,430	\$2,835	\$405	\$25	\$101	\$50	\$1,098
EMTA 125	EMT Clinical	2.25	\$270	\$540	\$810	\$945	\$135	\$25	\$34	\$0	\$1,463
EMTA 222	EMS Instructor-Coordinator	9	\$1,080	\$2,160	\$3,240	\$3,780	\$540	\$25	\$135	\$270	\$0
EMTA 224	EMS Instr-Coord Student Teach	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$270	\$0
ENGL 098	Integrated Reading Writing I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 099	Integrated Reading Writing II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
ENGL 118	Personal Writing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 121	Composition I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 122	Composition II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 124	Technical Writing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 127	Business Writing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 131	Honors Composition I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 132	Honors Composition II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 200	Introduction to Literature	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 201	Introduction to Poetry	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 202	World Drama	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 208	Children's Literature	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 211	World Literature I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
ENGL 212	World Literature II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 220	Science Fiction	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 240	The Film as Art	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 255	American Lit to 1865	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 256	American Lit 1865 to Present	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 260	African-American Literature	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 261	Creative Writing I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 266	British Lit to 1800	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 267	British Lit 1800 to Present	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 270	Gender and Literature	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 271	Creative Writing II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 278	Writing the Novel	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 279	Prose Style	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
ENGL 290	Shakespeare	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
ENGL 295	Independent Study in English	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
ESOL 098	ESL Combined Skills Level 4	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90		
ESOL 099	ESL Combined Skills Level 5	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 100	Principles Emergency Services	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 101	MI F.F.T.C. Basic Fire Level I	14	\$1,680	\$3,360	\$5,040	\$5,880	\$840	\$25	\$210	\$945	\$800

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
FIRE 102	MI F.F.T.C. Basic Fire Lev II	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$2,255	\$0
FIRE 104	Fire Behavior & Combustion	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
FIRE 105	Fire/Hydraulics/Water Supply	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 110	Fire Prevention	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
FIRE 112	Occup Health & Safety/Fire Svc	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 115	Bldg Construction/Fire Protect	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 125	Fire Protection Systems	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 150	Strategy and Tactics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 210	Fire Investigation I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 220	Hazardous Materials/Fire Svc	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$10	\$0
FIRE 250	Fire Administration I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
FIRE 270	Fire Service Career Developmnt	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
GEOG 120	Introduction to Geography	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$6	\$0
GEOG 200	World Regional Geography	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
GEOG 202	Geography of North America	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
GEOG 206	Physical Geography	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$37	\$0
GEOG 220	Weather, Forecasting & Climate	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
GEOG 221	Physical Geography	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$37	\$0
GEOL 221	Physical Geology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$30	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
GEOL 222	Historical Geology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$45	\$0
GEOL 230	Environmental Geology	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$45	\$0
GERO 100	Introduction to Human Aging	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$71	\$0
GERO 191	Special Topics in Gerontology	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
GRMN 121	Elementary German I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
GRMN 122	Elementary German II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
GSCI 100	Intro to Geospatial Tech	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
GSCI 110	Beginning ArcGIS	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$70	\$0
GSCI 120	Advanced ArcGIS	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$90	\$0
GSCI 150	Drone Flight for Industry	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$170	\$0
GSCI 210	Global Positioning Systems	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$130	\$0
GSCI 240	Cartography in GIS	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
GSCI 241	Remote Sens/AirPhoto Interpret	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$40	\$0
GSCI 250	Drone Map Analysis	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$170	\$0
GSCI 260	Automating Workflows in GIS	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
GSCI 264	Web GIS	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
GSCI 271	Parcel Mapping	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$65	\$0
GSCI 275	GIS Proj Mgmt & Implementation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$125	\$0
GSCI 290	GIS Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
HERT 110	Equipment Introduction	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$1,060	\$0
HERT 120	Heavy Engine Rebuild	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$1,740	\$0
HERT 125	Heavy Equipment Electronics	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$1,225	\$0
HERT 130	Equipment Hydraulics	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$1,374	\$0
HERT 135	Diesel Fuel Systems	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$1,024	\$0
HERT 140	Equipment Powertrain	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$1,357	\$0
HERT 145	Equipment Service Writing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$920	\$0
HERT 160	Equipment HVAC/Cab Controls	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$743	\$60
HERT 210	Heavy Equipment Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
HIST 150	African-American History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 210	Historical Methods and Skills	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 211	U.S. History to 1877	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 212	U.S. History: 1877 to Present	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 214	African History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 215	World History to 1500	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 216	World History since 1500	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 220	Michigan History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 235	Modern European History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 240	Latin American History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
HIST 250	History of Modern Asia	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HIST 295	Independent Study in History	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
HONR 151	Honors Colloquy I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
HONR 152	Honors Colloquy II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
HONR 155	Community Service Practicum I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
HONR 156	Community Service Practicum II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
HSAC 090	ERESA Heating & Air Cond	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAH 080	CCRESA PreAllied Hlth Car Prep	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAH 090	ERESA Health Occupations I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAH 092	ERESA Health Occupations II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAM 080	CCRESA Auto Service	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAM 090	ERESA Auto Mechanics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAM 091	ERESA Automotive Technology II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSAT 090	ERESA Architectural Drafting	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSBT 090	ERESA Building Trades	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSCJ 090	ERESA Crim Justc/Public Svc I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSCJ 092	ERESA Crim Just/Law Enforce II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSCS 080	CCRESA Computer Support I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSCT 090	ERESA Construction Technology	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
HSDM 090	ERESA Design and Machining	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSDM 091	ERESA Advanced Manufacturing	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSDM 092	ERESA Machine Tool Operations	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSDT 090	ERESA Industrial Drafting	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSKN 090	ERESA Sports Med Foundations	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSLE 090	ERESA Law Enforcement	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSMA 090	ERESA Mechatronics/Automation	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSMT 090	ERESA Manufacturing Tech	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSWD 090	ERESA Comp Graphic/Web Dsgn	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSWT 090	ERESA Welding/Cutting	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HSWT 092	ERESA Welding/Cutting II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
HUMS 140	Art of Being Human	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HUMS 160	Mythology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HUMS 215	American Cultural Experience	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HUMS 223	The Western World to 1500	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HUMS 224	The Western World since 1500	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
HUSE 100	Introduction to Human Services	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$65	\$0
HUSE 105	Personal Dynamics/Interviewing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$65	\$0
HUSE 110	Child Abuse and Neglect	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$65	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
HUSE 242	The Family: Addiction/Violence	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$68	\$0
HUSE 282	Human Services Practicum	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$93	\$0
HVAC 100	Fundamentals of HVAC	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$118	\$4
HVAC 110	Applied Electricity I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$139	\$4
HVAC 111	Applied Electricity II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$133	\$4
HVAC 113	HVAC/R Piping	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$170	\$5
HVAC 115	Sheet Metal Fab & Installation	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$142	\$4
HVAC 120	Heating I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$174	\$4
HVAC 130	Air Conditioning I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$213	\$34
HVAC 140	Residential Energy	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$55	\$15
HVAC 201	Mechanical Code	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$6
HVAC 220	Heating II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$183	\$4
HVAC 221	Introduction to Hydronics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$163	\$4
HVAC 230	Air Conditioning II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$208	\$4
HVAC 231	Heat Pump	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$183	\$4
HVAC 240	Refrigeration I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$223	\$4
HVAC 241	Refrigeration II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$208	\$4
HVAC 251	Fund of Direct Digital Control	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$213	\$5
HVAC 290	HVAC Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
IDMS 150	Sonographic Directed Study	1 to 8	\$120-\$960	\$240-\$1,920	\$360-\$2,880	\$420-\$3,360	\$60-\$480	\$25	\$15-\$120		
IDMS 170	Intro to Ultrasound Knobology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$532	\$127
IDMS 200	Sonographic Introduction	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$161	\$0
IDMS 201	General Sonography I: Abdomen	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$161	\$127
IDMS 202	OB/GYN Sonography I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$161	\$127
IDMS 234	Sonographic Physics	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$161	\$0
IDMS 245	Sonographic Instrumentation	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$161	\$0
IDMS 250	Vascular Technology I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$171	\$318
IDMS 251	Vascular Technology II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$161	\$0
IDMS 255	Vascular Scan Lab I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$537	\$318
IDMS 256	Vascular Scan Lab II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$552	\$0
IDMS 265	General Sonography II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$161	\$0
IDMS 266	OB/GYN Sonography II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$161	\$0
IDMS 270	Sonographic Positioning I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$800	\$127
IDMS 271	Sonographic Positioning II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$577	\$127
IDMS 280	Clinical Experience I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$927	\$100
IDMS 281	Clinical Experience II	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$929	\$0
IDMS 282	Clinical Experience III	7.5	\$900	\$1,800	\$2,700	\$3,150	\$450	\$25	\$113	\$1,029	\$0
INSU 105	Intro to Risk Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
INSU 110	Personal Insurance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
INSU 125	Commercial Insurance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
INSU 175	Intro to Financial Advising	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
INSU 250	Claims and Underwriting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
INSU 285	Insurance Agency Operations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
INSU 295	Insurance Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
IRXT 105	Introduction to Imaging	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$202	\$85
IRXT 111	Radiographic Positioning I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$472	\$5
IRXT 112	Radiographic Positioning II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$472	\$5
IRXT 116	Patient Care in Radiography	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$200	\$40
IRXT 123	Radiographic Independent Study	1 to 7	\$120-\$840	\$240-\$1,680	\$360-\$2,520	\$420-\$2,940	\$60-\$420	\$25	\$15-\$105		
IRXT 140	Image Analysis	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$250	\$0
IRXT 144	Digital Imaging and Exposure	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$200	\$0
IRXT 170	Clinical Practice I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$398	\$0
IRXT 172	Clinical Practice II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$388	\$0
IRXT 200	Intro to Radiologic Pathology	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$200	\$0
IRXT 214	Comprehensive Experience I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$463	\$0
IRXT 215	Comprehensive Experience II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$388	\$0
IRXT 222	Radiobiology and Protection	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$200	\$0

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2025 – 2026
Tuition and Course Fee Schedule

			Tuition^							Course Fees	
Course Code	Course Title	Bill Hrs.	District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*	Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Refundable	Non-Refundable
IRXT 224	Radiologic Physics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$200	\$0
IRXT 280	Radiologic Tech Board Review	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$200	\$200
IRXT 295	Radiologic Tech Special Topics	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
ISCI 121	Physical Science Concepts	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$52	\$0
ISCI 131	Integrated Physical Science	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$53	\$0
ISCI 245	S.T.E.M. Workplace Practices	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$53	\$0
JAPN 121	Elementary Japanese I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
JAPN 122	Elementary Japanese II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
JAPN 201	Intermediate Japanese I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
JAPN 202	Intermediate Japanese II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
JRNL 151	Newswriting and Reporting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
JRNL 254	Opinion Writing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LABR 200	Intro to Labor Relations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LABR 204	Employment Law for Managers	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEAD 110	Leadership Development I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
LEAD 111	Leadership Development II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
LEGL 110	Editing Legal Documents	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
LEGL 115	Introduction to Legal Studies	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 125	Legal Research and Writing I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
LEGL 160	Critical Thinking in Law	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 207	eDiscovery	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 211	Tort Law	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 212	Litigation Procedures	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 215	Business Law-Basic Principles	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 216	Commercial Transactions	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 217	Business Organizations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 218	Litigation Specialties	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 219	Adv Busn Law for Acct Majors	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
LEGL 222	Probate Law and Procedure	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 223	Domestic Relations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 225	Legal Research and Writing II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 228	Computer Appl for the Law Ofc	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 229	Immigration Law	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
LEGL 251	LegalStudies Independent Study	1 to 3	\$120-\$360	\$240-\$720	\$360-\$1,080	\$420-\$1,260	\$60-\$180	\$25	\$15-\$45		
LEGL 270	Paralegal Certification Prep	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$225	\$0
LEGL 280	Legal Studies Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MATH 095	Support for MATH115	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MATH 097	Support for MATH119 or STAT170	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MATH 098	Support for MATH120	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MATH 114	Technical Math I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 115	Technical Mathematics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 119	Math - Applications for Living	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 120	College Algebra	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 126	Precalculus	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75		
MATH 141	Calculus with Applications	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$25	\$0
MATH 151	Calculus I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 152	Calculus II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 201	Math for Elementary Teachers I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 253	Calculus III	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 254	Intro to Differential Equation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MATH 260	Linear Algebra	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MCHU 000	MACRAO Humanities	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MCSSM 000	MACRAO Science & Math	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MCSS 000	MACRAO Social Science	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MEDA 110A	Intro MA Med Terms & Patho I	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$83	\$0
MEDA 110B	Intro MA Med Terms & Patho II	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$83	\$0
MEDA 126A	MA Administrative Skills I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$135	\$0

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MEDA 126B	MA Administrative Skills II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$135	\$0
MEDA 135	MA Pharmacology & Med Math	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$165	\$0
MEDA 145	Legal & Ethical Concepts	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$165	\$0
MEDA 156A	MA Clinical Procedures IA	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$321	\$0
MEDA 156B	MA Clinical Procedures IB	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$321	\$0
MEDA 166	MA Clinical Procedures II	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$357	\$0
MEDA 175	MA Certification Review	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$165	\$0
MEDA 177A	MA Practicum Immersion I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$173	\$0
MEDA 177B	MA Practicum Immersion II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$173	\$0
METD 100	Basic Mechanical Drafting	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$105	\$0
METD 105	PC Applications for Technology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$90	\$0
METD 110	Mechanical CAD Drafting I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$135	\$0
METD 111	Mechanical CAD Drafting II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$115	\$0
METD 130	Geometric Dimension/Tolerance	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$110	\$0
METD 150	Industrial Blueprint Reading	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$95	\$0
METD 170	Special Topics/Eng & Design	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
METD 220	Basic Unigraphics/NX	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$155	\$0
METD 221	Advanced Unigraphics/NX	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$126	\$0
METD 240	Basic NX Machining	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$185	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
METD 250	Detailing Assembly Drawings	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$115	\$0
METD 265	Basic CAD FEA Simulation	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$120	\$0
METD 295	Engineering/Design Project Lab	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
METM 100	Manufacturing Processes	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$125	\$0
METM 108	Machine Tool Operations	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$213	\$0
METM 112	Introduction to CNC Machining	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$248	\$0
METM 150	Advanced CNC Machining	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$412	\$0
METM 170	Special Topics/Precision Mach	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
METM 171	Special Topics/Machining	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
METM 190	Metallurgy and Heat Treatment	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$385	\$0
METM 195	Quality/Metrology/Inspection	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$228	\$0
METM 220	Basic Mastercam	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$428	\$0
METM 221	Advanced Mastercam	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$495	\$0
METM 295	Precision Machine Project Lab	1 to 8	\$120-\$960	\$240-\$1,920	\$360-\$2,880	\$420-\$3,360	\$60-\$480	\$25	\$15-\$120		
METS 110	Mechanical Power Transmissions	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$422	\$0
METS 115	Intro to Mechanical Systems	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$352	\$0
METS 120	Industrial Pneumatics	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$387	\$0
METS 125	Intro to Hydraulics/Pneumatics	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$328	\$0
METS 130	Industrial Hydraulics	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$378	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
METS 140	Rigging	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$140	\$25
METS 145	Automated Systems	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$357	\$0
METS 160	Introduction to Robotics	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$357	\$0
METS 161	Intro to FANUC Robotics	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$357	\$0
METS 162	Intro to ABB Robotics	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$357	\$0
METS 170	Special Topics/Mechanical Sys	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
METS 210	Lubrication and Bearings	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$412	\$0
METS 250	Gen. Prevent/Predictive Maint	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$190	\$100
METS 260	Advanced Robotics Capstone	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$397	\$20
METS 290	Manufacturing Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
METS 295	Mechanical Systems Project Lab	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
MGMT 150	Managing Customer Relations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 200	Creative Thinking for Business	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 201	Time Management for Business	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
MGMT 202	Managing Difficult People	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
MGMT 223	Supervisory Skills	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 224	Human Resource Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$137	\$0
MGMT 225	Principles of Mgmt/Leadership	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$39	\$0
MGMT 227	Training/Development for Busn	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MGMT 228	Organization Behavior	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 229	Compensation Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 231	Developing and Leading Teams	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 234	Diversity in the Workplace	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 237	Managing/Continual Improvement	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 280	Mgmt/Leadership Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 300	Leading for Possibility	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 304	Organization Development	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 329	Advanced Mgmt Communication	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 332	Ethics for Managers & Leaders	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 335	Managerial Statistics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MGMT 337	Strategic Human Resource Mgmt	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$137	\$0
MGMT 345	Strategic Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MILS 110	Introduction to the Army	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
MILS 111	Introduction to the Army-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MILS 120	Foundations of Army Leadership	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
MILS 121	Fndtion of Army Leadership-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MILS 210	Army Doctrine & Team Developmnt	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MILS 211	Army Doctrine/Team Develop-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MILS 220	Mil Leadrshp & Decision Making	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MILS 221	Mil Ldrshp/Decision Making-Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MKTG 119	Mktg/Manage Your Profess Image	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 120	Sales	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 130	Retailing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 140	Principles of Advertising	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 200	Principles of Marketing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 204	Marketing Research	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 210	Intro to Digital Marketing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 229	Public Relations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MKTG 235	Marketing Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MRIT 200	Professional Prospectus	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 201	Computer Apps/Medical Imaging	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 220	MR Physics I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 222	MR Physics II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 229	Applied Sectional Anatomy	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 230	MR Procedures and Pathophys I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 232	MR Procedures and Pathophys II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 240	MRI Image Analysis	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MRIT 260	MRI Pre-Clinical Preparation	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 261	Clinical Practice I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 262	Clinical Practice II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 263	Clinical Practice III	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MRIT 295	MRI Certification Exam Prep	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MSGE 110	Massage for Beginners	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$111	\$0
MSGE 131	Massage I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$223	\$0
MSGE 132A	Anatomy/Physiology Massage I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$106	\$0
MSGE 132B	Anatomy/Physiology Massage II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$106	\$0
MSGE 137	Medical Terminology in Massage	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$106	\$0
MSGE 139A	Pathology for Massage I	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$106	\$0
MSGE 139B	Pathology for Massage II	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$106	\$0
MSGE 141	Massage Clinic I	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$233	\$0
MSGE 151B	Event Massage	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$111	\$0
MSGE 151D	Special Populations	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$111	\$0
MSGE 170	Massage Directed/Indep Study	0.25 to 7	\$30-\$840	\$60-\$1,680	\$90-\$2,520	\$105-\$2,940	\$15-\$420	\$25	\$3.75-\$105		
MSGE 231	Massage II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$126	\$0
MSGE 232	Massage III	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$126	\$0
MSGE 241	Massage Clinic II	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$228	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MSGE 242	Massage Clinic III	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$244	\$0
MSGE 254	Busn App for Massage	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$106	\$0
MSGE 256	Clinical Assess for Massage	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$111	\$0
MSGE 258	Career Longevity	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$111	\$0
MTAA 000	MTA English Comp	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MTAB 000	MTA Eng Comp/Comm	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MTAC 000	MTA Hum & Fine Arts	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MTAD 000	MTA Mathematics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MTAE 000	MTA Natural Science	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MTAF 000	MTA Social Science	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
MUSC 101	Vocal Jazz & Pop Ensemble	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$6	\$0
MUSC 106	Private Music Lesson	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$500	\$0
MUSC 108	Concert Choir	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$70	\$0
MUSC 109	Studio Class	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$30	\$0
MUSC 122	Rock Band	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
MUSC 123	Jazz Ensemble	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$70	\$0
MUSC 124	Multi-Instrumental Music Ensem	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$5	\$0
MUSC 134	Live Sound/Event Production	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
MUSC 138	Keyboard Harmony I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MUSC 143	Beginning Piano I - Summer	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$20	\$0
MUSC 144	Beginning Piano I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$20	\$0
MUSC 145	Beginning Piano II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$20	\$0
MUSC 157	Applied Lesson I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$450	\$0
MUSC 158	Applied Lesson II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$450	\$0
MUSC 163	Aural Skills I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MUSC 164	Aural Skills II	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
MUSC 168	Rudiments of Music	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MUSC 171	Sound Design & Production	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
MUSC 172	Studio Recording	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$80	\$0
MUSC 193	Music Theory I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MUSC 194	Music Theory II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MUSC 197	Electronic Music Production	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
MUSC 199	Music Appreciation	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MUSC 237	Musical Theater Performance	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
MUSC 240	Musical Cultures to 1750	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MUSC 241	Musical Cultures 1750-Present	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
MUSC 255	Music Business & Management	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MUSC 257	Applied Lesson III	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$450	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
MUSC 258	Applied Lesson IV	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$450	\$0
MUSC 280	Private Composition	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$280	\$0
MUSC 296	Music Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
MUSC 298	Composition and Sound Design	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
NCAS 102	Noncredit Academic Supprt-ENGL	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCAS 103	Noncredit Academic Supprt-SOCL	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCAS 104	Noncredit Academic Supprt-PSYC	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCAS 105	Noncredit Academic Supprt-BUSN	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCBD 050	Building/Design Special Topics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCCC 101	College Connect	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCCC 101E	College Connect - English	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCCC 101M	College Connect - Math	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCCE 200	Creative Arts	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCCE 700	Health and Wellness Seminars	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCCT 200	Noncredit Industrial Trades	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCCT 600	Noncredit Public Safety Svcs	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCCT 800	Noncredit Career Preparation	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCEL 030	Low Intermediate Accelerated	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$50	\$0
NCEL 033	Multi-Skills III	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$50	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
NCEL 034	ESL Combined Skills Level 3	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$700	\$0
NCEL 035	ESL Skills Level 1A - Reading	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$80	\$0
NCEL 097	ESL Listening-Speaking	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCEL 160	ESOL for Health Careers	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$425	\$0
NCEL 170	ESOL for Business	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$279	\$0
NCHE 102	AHA BLS Provider CPR	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$95	\$0
NCHE 227	Health Special Topics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$0	\$0
NCJT 100	Non-Credit Software and Tech	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCJT 200	Business and Management	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCLD 210	Leadership Practicum I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCLD 211	Leadership Practicum II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCMA 101	Math Refresher	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCMA 106	NC - Math Literacy with Review	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCMA 110	Fundamentals of Mathematics	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCRW 100	Foundations for Success	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$25	\$0
NCRW 101	Reading and Writing Refresher	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NCSO 001	New Student Orientation	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 100	Neuroanatomy and Physiology	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 101	Neurodiagnostic Procedures	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		

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Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
NDXT 102	EEG Applications	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 120	EEG Pre-Clinical Preparation	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 130	Principles of EEG	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 131	Electricity Principles/Safety	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 132	EEG Instrumentation I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 200	EEG Procedures & Pathology I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 201	EEG Instrumentation II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 202	EEG Quality Control	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 220	EEG Clinical Practice I	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 221	EEG Clinical Practice II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 230	EEG Procedures & Pathology II	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 231	EEG Procedures & Pathology III	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0		
NDXT 232	EEG Procedures & Pathology IV	0	\$0	\$0	\$0	\$0	\$0	\$25	\$0	\$230	\$50
NURS 101	Nursing Directed Study	0.25 to 6	\$30-\$720	\$60-\$1,440	\$90-\$2,160	\$105-\$2,520	\$15-\$360	\$25	\$3.75-\$90		
NURS 119	Special Topics in Nursing	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		
NURS 200	Nursing Pharmacology	3.5	\$420	\$840	\$1,260	\$1,470	\$210	\$25	\$53		
NURS 201	Patient-Centered Care	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$211	\$23
NURS 210	Transition to Prof Nursing	10.5	\$1,260	\$2,520	\$3,780	\$4,410	\$630	\$25	\$158	\$1,212	\$943
NURS 211	Intro to Nursing Practice	13.25	\$1,590	\$3,180	\$4,770	\$5,565	\$795	\$25	\$199	\$1,196	\$1,252

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
NURS 212	Concepts of Pharmacology	3.5	\$420	\$840	\$1,260	\$1,470	\$210	\$25	\$53	\$113	\$0
NURS 221	Nursing Practice I	10.75	\$1,290	\$2,580	\$3,870	\$4,515	\$645	\$25	\$161	\$1,106	\$162
NURS 222	Childbearing Families	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$676	\$0
NURS 231	Nursing Practice II	10	\$1,200	\$2,400	\$3,600	\$4,200	\$600	\$25	\$150	\$1,022	\$179
NURS 232	Children and Their Families	5.5	\$660	\$1,320	\$1,980	\$2,310	\$330	\$25	\$83	\$663	\$0
NURS 241	Nursing Practice III	11.75	\$1,410	\$2,820	\$4,230	\$4,935	\$705	\$25	\$176	\$1,380	\$75
NURS 242	Professional Practice	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$193	\$0
PARA 200	Paramedic Directed Study	1 to 7	\$120-\$840	\$240-\$1,680	\$360-\$2,520	\$420-\$2,940	\$60-\$420	\$25	\$15-\$105		
PARA 221	Paramedic Medical Trauma I	3.75	\$450	\$900	\$1,350	\$1,575	\$225	\$25	\$56	\$343	\$0
PARA 221A	Paramedic Medical Trauma IA	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$176	\$0
PARA 221B	Paramedic Medical Trauma IB	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
PARA 222	Paramedic Medical Trauma II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$343	\$0
PARA 222A	Paramedic Medical Trauma IIA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
PARA 222B	Paramedic Medical Trauma IIB	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$176	\$0
PARA 222C	Paramedic Medical Trauma IIC	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$168	\$0
PARA 231	Paramedic Cardiology I	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$339	\$0
PARA 231A	Paramedic Cardiology IA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$172	\$0
PARA 231B	Paramedic Cardiology IB	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$168	\$0
PARA 232	Paramedic Cardiology II	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$675	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
PARA 232A	Paramedic Cardiology IIA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$172	\$0
PARA 232B	Paramedic Cardiology IIB	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$168	\$0
PARA 241	Paramedic Pharmacology I	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$339	\$0
PARA 241A	Paramedic Pharmacology IA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15		
PARA 241B	Paramedic Pharmacology IB	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$172	\$0
PARA 242	Paramedic Pharmacology II	2.5	\$300	\$600	\$900	\$1,050	\$150	\$25	\$38	\$339	\$0
PARA 242A	Paramedic Pharmacology IIA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$170	\$0
PARA 242B	Paramedic Pharmacology IIB	1.5	\$180	\$360	\$540	\$630	\$90	\$25	\$23	\$170	\$0
PARA 251	Paramedic Skills I	7.5	\$900	\$1,800	\$2,700	\$3,150	\$450	\$25	\$113	\$1,734	\$0
PARA 251A	Paramedic Skills IA	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PARA 251B	Paramedic Skills IB	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$943	\$0
PARA 252	Paramedic Skills II	7.5	\$900	\$1,800	\$2,700	\$3,150	\$450	\$25	\$113	\$1,598	\$0
PARA 252A	Paramedic Skills IIA	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$812	\$0
PARA 252B	Paramedic Skills IIB	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$812	\$0
PARA 261	Paramedic Clinical I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$1,592	\$0
PARA 262	Paramedic Clinical II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$1,663	\$0
PARA 262A	Paramedic Clinical IIA	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$623	\$0
PARA 262B	Paramedic Clinical IIB	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$623	\$0
PARA 262C	Paramedic Clinical IIC	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$555	\$0

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
PARA 263	Paramedic Internship	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$1,329	\$0
PFFT 100	Total Fitness A-Fitness	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
PFFT 101	Total Fitness B-Nutrition	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
PFFT 102	Total Fitness C-Weight Control	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
PFFT 109	Introduction to Fitness	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFFT 113	Core Strength & Flexiblty Trng	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFFT 114	Police Academy Fitness Trng	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
PFFT 119	Fire Academy Fitness Training	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
PFFT 170	Yoga: Beginning	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFFT 181	Lineworker Fitness A	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFFT 182	Lineworker Fitness B	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFFT 183	Lineworker Fitness C	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$60	\$0
PFHW 120	Health and Wellness for Police	0.5	\$60	\$120	\$180	\$210	\$30	\$25	\$8	\$15	\$0
PFHW 123	Human Nutrition	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$57	\$0
PFHW 163	Healthy Lifestyles	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$61	\$0
PFHW 181	Stress Management	1	\$120	\$240	\$360	\$420	\$60	\$25	\$15	\$51	\$0
PFKN 106	Group Fitness Instructor Prep	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$61	\$0
PFKN 170	Foundations of Kinesiology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$51	\$0
PFKN 200	Exercise Physiology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$61	\$0

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2025 – 2026
Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
PFKN 201	Exercise Physiology Lab	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$107	\$0
PFKN 205	Sport & Exercise Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$51	\$0
PFKN 208	Biomechanics	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$61	\$0
PFKN 210	Athletic Training Principles	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$74	\$0
PFKN 250	Measurements in Kinesiology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$71	\$0
PFKN 260	Growth and Motor Behavior	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$51	\$0
PFKN 270	Personal Trainer Preparation	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$98	\$0
PFKN 280	Kinesiology Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$51	\$0
PFWT 112	Intro to Weight Training	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$60	\$0
PFWT 123	Weight Training I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$60	\$0
PHIL 101	Introduction to Philosophy	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PHIL 151	Intro to Logic & Critical Think	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
PHIL 152	Introduction to Ethics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
PHIL 211	Philosophy: Ancient & Medieval	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
PHIL 212	Philosophy: Modern & Contempory	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
PHIL 215	Philosophy of Religion	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PHIL 265	Ethical Issues in Medicine	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PHOT 111	Digital Photography I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$37	\$0
PHOT 113	Lighting Concepts and Applic	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$12	\$0

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PHOT 120	Still/Motion Capture & Editing	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$20	\$0
PHOT 200	Content on the Go	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PHYS 120	The Art of Physics	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$52	\$0
PHYS 200	Intro to Applied Physics	5	\$600	\$1,200	\$1,800	\$2,100	\$300	\$25	\$75	\$52	\$0
PHYS 221	Introductory Physics I	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$56	\$0
PHYS 222	Introductory Physics II	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$56	\$0
PHYS 251	Physics I with Calculus	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$57	\$0
PHYS 252	Physics II with Calculus	7	\$840	\$1,680	\$2,520	\$2,940	\$420	\$25	\$105	\$57	\$0
PHYS 260	Statics for Engineers	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 120	American Political System	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
POLS 121	State and Local Government	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
POLS 201	Intro to Political Science	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 205	Political Science Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 240	Introduction to Public Policy	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 250	Campaigns & Elections	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 260	Comparative Political Systems	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
POLS 270	International Relations	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 175	Psyc of Death: Prep for Living	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 180	Intro to Positive Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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PSYC 200	Introduction to Psychology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
PSYC 202	Psychology of Personality	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 203	Social Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 205	Human Growth and Development	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 209	Cognitive Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 210	Brain and Behavior	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 221	Child Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 222	Adolescent Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 240	Psychology of Human Sexuality	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
PSYC 250	Abnormal Psychology	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
RELG 150	Intro to World Religions	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
RELG 210	Comparative Religions	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
RELG 211	Asian Religions and Traditions	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
RELG 230	Introduction to Christianity	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
RELG 232	Introduction to Islam	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SCIN 287	Science Technology Internship	2 to 4	\$240-\$480	\$480-\$960	\$720-\$1,440	\$840-\$1,680	\$120-\$240	\$25	\$30-\$60		
SCIS 297	Independent Study in Science	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
SIGN 160	Intro to the Deaf Community	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 161	American Sign Language I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
SIGN 162	American Sign Language II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 163	American Sign Language III	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 164	American Sign Language IV	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 166	Fingerspelling	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 167	Beginning Sign to Voice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 170	Expressive/Receptive ASL	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 200	Sign Practicum Seminar	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$40	\$0
SIGN 240	Intro to Transliterating	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$80	\$0
SIGN 250	Deaf Culture and History	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 260	Linguistic Principles of ASL	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SIGN 263	Intermediate Sign to Voice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
SIGN 266	Post-Secondary Interpreting	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$40	\$0
SIGN 267	Sign Practicum I	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
SIGN 268	Sign Practicum II	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
SIGN 270	Advanced Interpreting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
SIGN 271	Advanced Sign to Voice	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$40	\$0
SIGN 293	Principles of Interpreting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$25	\$0
SIGN 296	Specialized Interpreting	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$25	\$0
SOCL 120	Introduction to Sociology	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		

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2025 – 2026 Tuition and Course Fee Schedule

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
SOCL 254	Marriage and Family	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SOCL 255	Contemporary Social Problems	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SOCL 260	Race and Ethnicity	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SOWK 101	Introduction to Social Work	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$68	\$0
SPAN 106	Spanish for Health Care	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
SPAN 121	Elementary Spanish I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
SPAN 122	Elementary Spanish II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
SPAN 201	Intermediate Spanish I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
SPAN 202	Intermediate Spanish II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
STAT 170	Introduction to Statistics	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
STAT 215	Intro to Probability and Stats	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
STPR 145	Foundations Sterile Processing	6.5	\$780	\$1,560	\$2,340	\$2,730	\$390	\$25	\$98	\$255	\$0
STPR 148	Sterile Processing Externship	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$53	\$0
SURG 100	Fundamentals of Surgical Tech	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$349	\$0
SURG 101	The Surgical Patient	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$349	\$0
SURG 103	Surgical Asepsis	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$344	\$0
SURG 108	Surgical Pharmacology	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$349	\$0
SURG 109	Basic Surgical Procedures	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$349	\$0
SURG 110	Advanced Surgical Procedures	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$349	\$0

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			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
SURG 111	Surgical Specialty/Prof Prep	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$596	\$0
SURG 121	Applied Surgical Techniques I	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$692	\$285
SURG 122	Applied Surgical Techniques II	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$703	\$0
SURG 123	Applied Surgical Techiq III	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$484	\$0
SURG 124	Applied Surgical Techniques IV	8	\$960	\$1,920	\$2,880	\$3,360	\$480	\$25	\$120	\$484	\$0
TECH 100	Safety-OSHA10	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$83	\$0
TECH 102	General Industry Safety	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$0	\$11
THEA 110	Introduction to Theatre	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 114	Intro to Technical Theatre	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$0	\$35
THEA 115A	Tech Thea II-Set/Light Design	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 115B	Tech Thea II-Prop Design/Const	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 115C	Tech Thea II-Costume Des/Const	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 115D	Tech Thea II-Produc/Stage Mgmt	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 120	Introduction to Acting	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 131	Studio Theatre Performance I	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$20	\$0
THEA 141	Acting I - Contemporary	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 143	Stage Voice for the Actor	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 150	Acting for the Camera	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$50	\$0
THEA 160	Stage Combat	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025 – 2026 Tuition and Course Fee Schedule

Course Code	Course Title	Bill Hrs.	Tuition^					Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Course Fees	
			District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*			Refundable	Non-Refundable
THEA 171	Play Analysis	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 173	Movement for the Actor	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		
THEA 181	Improvisation	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 210	Theatre History	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 220	Play Directing	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 225	Building a Character	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30		
THEA 233	Studio Theatre Performance III	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60	\$20	\$0
THEA 240	Acting-Shakespeare	4	\$480	\$960	\$1,440	\$1,680	\$240	\$25	\$60		
THEA 283	Audition Workshop	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$30	\$0
THEA 285	Stage Makeup	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$95	\$0
WELD 103	Combination Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$465	\$0
WELD 105	Advanced ARC Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$468	\$0
WELD 108	Welding for Non-Majors	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$475	\$0
WELD 110	Gas Metal ARC Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$465	\$0
WELD 111	Gas Tungsten ARC Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$468	\$0
WELD 115	Robotic MIG Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$390	\$0
WELD 125	Structural Print Reading/Weld	2	\$240	\$480	\$720	\$840	\$120	\$25	\$30	\$35	\$0
WELD 140	Creative Welding	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45	\$465	\$0
WELD 170	Special Topics in Welding	0.25 to 11	\$30-\$1,320	\$60-2,640	\$90-3,960	\$105-\$4,620	\$15-\$660	\$25	\$3.75-\$165		

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2025 – 2026
Tuition and Course Fee Schedule

			Tuition^							Course Fees	
Course Code	Course Title	Bill Hrs.	District Resident (\$120)	In-State (\$240)	Out-of-State (\$360)	Int'l Student (\$420)	Senior Citizen (\$60)*	Registration Fee^ (Per semester, not course)	Student Support^ (Bill hrs x \$15)	Refundable	Non-Refundable
WELD 191	Welding Project Lab	1 to 4	\$120-\$480	\$240-\$960	\$360-\$1,440	\$420-\$1,680	\$60-\$240	\$25	\$15-\$60		
WELD 201	Tool and Die Welding	4.5	\$540	\$1,080	\$1,620	\$1,890	\$270	\$25	\$68	\$455	\$10
WELD 205	Pipe Welding	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$465	\$0
WELD 220	Structural Fab & Inspection	6	\$720	\$1,440	\$2,160	\$2,520	\$360	\$25	\$90	\$465	\$0
WELD 250	Welding Internship	3	\$360	\$720	\$1,080	\$1,260	\$180	\$25	\$45		

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2025-2026 Course Descriptions

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ACAD 100 First-Year Experience

Credit Hours: 1 / Billing Hours: 1

First-Year Experience introduces students to college and the skills they will need for success in college. Students will learn and apply strategies for adjusting to college and improving class performance. Topics include academic and self-management issues, such as campus resources, study techniques, diversity, communication, critical thinking and problem solving, career planning, time management, goal-setting, finances and stress-management. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or concurrent enrollment in (ENGL 098 or ENGL 099 or ESOL 098 or ESOL 099).

ACCG 101 Accounting Info for Management

Credit Hours: 3 / Billing Hours: 3

Students will learn to interpret financial statements and use this information for analysis, budgeting, and decision-making. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Math Level 4.

ACCG 160 Payroll Systems and Taxes

Credit Hours: 2 / Billing Hours: 2

This course covers laws affecting payroll, calculation of payroll and payroll taxes using both manual and computer payroll systems, preparation of tax forms for payroll taxes, sales and use taxes, and personal property taxes. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Math Level 4.
- Recommended: ACCG 100 or ACCG 210.
- Course Note: Knowledge of Microsoft Excel is recommended, and access to Microsoft Excel is needed to complete required assignments.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ACCG 161 Accounting with Quickbooks

Credit Hours: 2 / Billing Hours: 2

Students will have hands-on experience in setting up an accounting system for a new or existing company using the QuickBooks general ledger accounting software. Students also will learn how to perform numerous types of accounting procedures using QuickBooks. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Math Level 4.
- Recommended: ACCG 100 or equivalent coursework or equivalent work experience.

ACCG 210 Principles of Financial Accg

Credit Hours: 4 / Billing Hours: 4

This course introduces the basic concepts of financial accounting, including the processing and reporting of business transactions throughout the accounting cycle of service and merchandising businesses. The course includes the preparation and analysis of the financial statements, including accounting for cash, internal controls, inventories, receivables, plant assets, current liabilities, long-term liabilities, bonds, equity, statement of cash flows, as well as financial statement analysis. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Math Level 4.
- Course Note:
 - o 1) Textbooks for this course are included in the course fee. Access to the textbooks will be given on the first day of class.
 - o 2) Access to Microsoft Excel is needed to complete required assignments.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ACCG 211 Principles of Managerial Accg

Credit Hours: 4 / Billing Hours: 4

This course emphasizes developing an understanding of cost and managerial accounting. Students will learn how to use managerial accounting tools for analysis, reporting, and facilitating decision-making. They will also learn about product costing, budgeting, and cost control methods. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in ACCG 210.
- Placement Score: Reading Level 5 and Math Level 4.
- Recommended: Intermediate Algebra or higher.
- Course Note:
 - o 1) Textbooks for this course are included in the course fee. Access to the textbooks will be given on the first day of class.
 - o 2) Access to Microsoft Excel is needed to complete required assignments.

ACCG 215 Financial Data Analytics

Credit Hours: 4 / Billing Hours: 4

An overview of data analytics, focusing on the application of analytical and quantitative tools in business decision-making. Introduces students to the analytical techniques and tools used in collecting, cleansing, transforming, analyzing, visualizing, and communicating data in accounting, finance, marketing, and business management. Students gain hands-on knowledge of Excel and other analytical applications and tools supporting the use of data for decision-making. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ACCG 210.
- Placement Score: Reading Level 5 and Math Level 4.
- Corequisite Course: ACCG 211.
- Recommended: Basic knowledge of statistics.
- Course Note:
 - o 1) Knowledge of Microsoft Excel recommended, and access to Microsoft Excel is needed to complete required assignments.
 - o 2) Students using Apple products may not be able to complete all assignments. Students may need access to a Windows-based computer. Students using Apple products may have to checkout a computer from the library or come on campus to complete all assignments.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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ACCG 220 Intermediate Accounting I

Credit Hours: 4 / Billing Hours: 4

Intermediate Accounting I is the first in a two-course sequence focusing on financial accounting and reporting, especially for publicly-traded corporations. Topics include the environment of financial accounting, accounting theory, financial statement preparation, time value of money concepts, and specific issues in accounting for current and long-term assets. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ACCG 210) and minimum 2.0 in (ACCG 215 or concurrently).
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel recommended, and access to Microsoft Excel is needed to complete required assignments.

ACCG 221 Intermediate Accounting II

Credit Hours: 4 / Billing Hours: 4

Intermediate Accounting II is the second in a two-course sequence, focusing on financial accounting and reporting, especially for publicly-traded corporations. Topics include accounting for investments, liabilities, and shareholders' equity. In addition, the statement of cash flows and accounting changes and error correction are reviewed in depth. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ACCG 220.
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel is recommended, and access to Microsoft Excel is needed to complete required assignments.

2025-2026 Course Descriptions

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ACCG 230 Cost/Managerial I

Credit Hours: 4 / Billing Hours: 4

This course focuses on accounting for manufacturing; cost-volume-profit analysis, responsibility accounting, decision models, activity based costing and activity based management. Other topics include: Just-In-Time inventory, absorption vs. variable costing, role-responsibility and professional ethics of the accountant. Computer applications are emphasized. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ACCG 211) and minimum 2.0 in (ACCG 215 or concurrently).
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel is recommended, and access to Microsoft Excel is needed to complete required assignments.

ACCG 240 Federal Income Tax I

Credit Hours: 4 / Billing Hours: 4

This class is the first in a two-semester sequence in federal income tax. This course deals with taxation of individuals from a historical and theoretical perspective, as well as preparation of individual income tax returns under current tax law. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.0 in ACCG 210.
- Placement Score: Reading Level 5.

ACCG 241 Federal Income Tax II

Credit Hours: 4 / Billing Hours: 4

This class is the second in a two-semester sequence in federal income tax. This course deals with the taxation of corporations, s-corporations, LLC's, partnerships, estates, and trusts from a historical and theoretical perspective, and as well as preparation of tax and information returns under current tax law. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ACCG 240.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

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ACCG 245 Accounting Internship

Credit Hours: 2 / Billing Hours: 2

This course provides an opportunity to apply classroom learning to a career-related position by working a minimum of 128 hours at an approved work site. A student may do an internship at their own job only if the duties are new, accounting related, and provide an appropriate learning situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Recommended: Minimum of 8 upper level ACCG credits.

ACCG 260 Accounting Systems

Credit Hours: 4 / Billing Hours: 4

Accounting Systems prepares students to work with and design information systems. Students analyze systems, work with computerized accounting systems, database design, and problem solving with spreadsheets. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ACCG 211 and 220).
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel is recommended, and access to Microsoft Excel is needed to complete required assignments.

ACCG 271 Principles of Finance

Credit Hours: 3 / Billing Hours: 3

This course emphasizes the short- and long-term decisions a financial manager may face. Topics include working capital management, risk, cost of capital, capital markets, long-term debt, stocks and dividend policy, mergers and acquisitions, and international financial markets as these topics relate to obtaining financing for a business. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.0 in ACCG 211.
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel recommended, and access to Microsoft Excel is needed to complete required assignments.

2025-2026 Course Descriptions

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ACCG 280 Governmental Accounting

Credit Hours: 3 / Billing Hours: 3

Applications of fund accounting principles are applied to governmental (local and state) and not-for-profit entities. Students learn skills necessary to understand the organization, accounting functions, auditing, and financial reporting practices of governmental and non profit organizations. Governmental Accounting Standards Board (GASB) and Financial Accounting Standards Board (FASB) requirements are taught. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ACCG 211.
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel recommended, and access to Microsoft Excel is needed to complete required assignments.

ACCG 290 Auditing

Credit Hours: 4 / Billing Hours: 4

Students will primarily learn about the audit of historical financial statements as performed by certified public accounting firms. Material covered on the CPA exam will be emphasized. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ACCG 221 or concurrently.
- Placement Score: Reading Level 5.
- Course Note: Knowledge of Microsoft Excel recommended, and access to Microsoft Excel is needed to complete required assignments.

AEET 275 Sustainable Building Design

Credit Hours: 4 / Billing Hours: 6

This course is a capstone project lab that offers students the opportunity to apply advanced skills in sustainable energy efficient architectural design and building science at a project construction site. The course will incorporate concepts that were acquired in prior coursework. Specific content may vary based on project specific requirements. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AEET 280 Alternative Energy Practicum

Credit Hours: 4 / Billing Hours: 4

Special research projects and/or individual readings are used to apply personal and professional experience to the academic area of interest. Each accepted student will submit a plan that will be approved by the program advisor. The completion of a written project report is required. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AERO 110 USAF Heritage & Values I-Lab

Credit Hours: 1 / Billing Hours: 2

This Lab course augments AFROTC academic curriculum by providing prospective Air Force officers the opportunities and feedback needed to develop the leadership, managerial and supervisory skills required of successful Air Force officers. Physical Training (PT) enhances fitness levels of cadets and prepares them to meet AFROTC and Air Force standards, while motivating cadets to pursue a physically fit and active lifestyle. Attendance is mandatory except as arranged with the Operations Flight Commander, through the cadet wing chain of command. (Offered Fall)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

AERO 111 USAF Heritage & Values I

Credit Hours: 1 / Billing Hours: 1

This course provides an introduction to the U.S. Air Force today. Course topics include mission and organization, group leadership problems, and introduction to communication skills. Includes a leadership laboratory. (Offered Fall)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AERO 112 USAF Heritage & Values II

Credit Hours: 1 / Billing Hours: 1

This course provides an introduction to the U.S. Air Force today. Course topics include officership and professionalism, group leadership problems, and introduction to communication skills. Includes a leadership laboratory. (Offered Spring)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

AERO 113 USAF Heritage & Values II-Lab

Credit Hours: 1 / Billing Hours: 2

This lab course augments AFROTC academic curriculum by providing prospective Air Force officers the opportunities and feedback needed to develop the leadership, managerial and supervisory skills required of successful Air Force officers. Physical Training (PT) enhances fitness levels of cadets and prepares them to meet AFROTC and Air Force standards, while motivating cadets to pursue a physically fit and active lifestyle. Attendance is mandatory except as arranged with the Operations Flight Commander, through the cadet wing chain of command. (Offered Spring)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AERO 210 USAF Team & Ldrshp Fund I-Lab Credit Hours: 1 / Billing Hours: 2

This lab course augments AFROTC academic curriculum by providing prospective Air Force officers the opportunities and feedback needed to develop the leadership, managerial and supervisory skills required of successful Air Force officers. Physical Training (PT) enhances fitness levels of cadets and prepares them to meet AFROTC and Air Force standards, while motivating cadets to pursue a physically fit and active lifestyle. Attendance is mandatory except as arranged with the Operations Flight Commander, through the cadet wing chain of command. (Offered Fall)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

AERO 211 USAF Team & Leadership Fund I Credit Hours: 1 / Billing Hours: 1

This course focuses on Air Force heritage. Course topics include evaluation of air power concepts and doctrine, introduction to ethics and values, introduction to leadership, and the continuing application of communication skills. Includes a leadership laboratory. (Offered Fall)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

AERO 212 USAF Team & Leadership Fund II Credit Hours: 1 / Billing Hours: 1

Course topics include the role of technology in the growth of air power, group leadership problems, and the continuing application of communication skills. Includes a leadership laboratory. (Offered Spring)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AERO 213 USAF Team/Leadership Fund II-Lab Credit Hours: 1 / Billing Hours: 2

This lab course augments AFROTC academic curriculum by providing prospective Air Force officers the opportunities and feedback needed to develop the leadership, managerial and supervisory skills required of successful Air Force officers. Physical Training (PT) enhances fitness levels of cadets and prepares them to meet AFROTC and Air Force standards, while motivating cadets to pursue a physically fit and active lifestyle. Attendance is mandatory except as arranged with the Operations Flight Commander, through the cadet wing chain of command. (Offered Spring)

- Prerequisite Course: None. Department approval is required.
- Placement Score: None.
- Course Note: Call Aerospace Studies at MSU at 517-355-2168, for specific information regarding the Aerospace Studies program.

ANTH 120 Introduction to Anthropology Credit Hours: 3 / Billing Hours: 3

What does it mean to be human? This course is designed to explore this question through the study of the sub-disciplines of anthropology: biological anthropology, archaeology, anthropological linguistics, and cultural anthropology. Students will focus not on thinking of these sub-fields as four disparate disciplines but rather as four perspectives that, when integrated, provide a holistic, comparative, and global understanding of the human condition. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ANTH 270 Cultural Anthropology Credit Hours: 3 / Billing Hours: 3

This course is an introduction to human cultural systems from a holistic, comparative, and global perspective. It explores capabilities such as language, adaptation, family, and healing systems acquired by humans as members of their society. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ANTH 271 Medical Anthropology

Credit Hours: 3 / Billing Hours: 3

Medical Anthropology examines the connections between culture, health, and illness. The course focuses on contemporary and alternative medicine, including traditional healing, and disease patterns in different cultures. The course prepares students to engage with the complex cultural dimensions of health and healthcare in a globalized world. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ANTH 272 Food and Sustainability

Credit Hours: 3 / Billing Hours: 3

Students will learn about why humans eat what they eat and of the intimate relationship between culture and food economies. They will gain an understanding of the global food industry, its position of power, and its impact on non-Western cultures. This course will have an optional Service Learning Project. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ANTH 120 or ANTH 270 or SOCL 120.

ANTH 275 Biological Anthropology

Credit Hours: 4 / Billing Hours: 4

An overview of human biological evolution as evidenced in fossil records. Mechanisms of biocultural adaptation will be traced through the development of modern homo sapiens. Major theoretical approaches and methodologies within the subdisciplines of biological anthropology will be incorporated. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

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ANTH 276 Introduction to Archaeology

Credit Hours: 3 / Billing Hours: 3

An introduction to the history, methods, and theoretical concepts of archaeology as a sub-discipline of anthropology. Archaeologists study preserved material remains, which are used to construct interpretations about the human past. Students will consider the social relevance archaeological discoveries might have on modern problems, including environmental degradation, conflict, and cultural identity. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ANTH 280 Forensic Anthropology

Credit Hours: 3 / Billing Hours: 3

Forensic anthropologists apply the principles of skeletal biology and anthropological theory to medico-legal contexts. As an introduction to the methodology of forensic anthropologists and relevant themes, students will engage with current and past forensic cases. Students will be exposed to ethical issues, controversies, excavation, and treatment of the dead in forensic research. The course is designed to focus on practical applications of forensic anthropology with a focus on problem-oriented research studies. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ANTH 300 Applied Field Survey Methods

Credit Hours: 4 to 8 / Billing Hours: 4 to 8

This course introduces the methods used to collect and analyze archaeological data in hands-on field and lab settings. Students will learn survey techniques used in archaeology, incorporating skills in geography, geology, and geospatial science. Skills emphasized include site mapping, controlled excavation, on-site documentation, artifact curation, and geospatial data analysis. The course includes a field internship at an active archaeological survey location. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ANTH 276 or concurrently.
- Placement Score: (Reading Level 5 and Writing Level 6) or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently) and Math Level 4.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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APPR 170 Inside Wireman Apprentice 1-A Credit Hours: 4 / Billing Hours: 4

First of fifteen courses specifically for IBEW/JATC apprentices. Basic electrical safety, using state/federal standards/practices, in the home, electrical laboratory, and in construction and industry are covered. The installation of various wiring systems in wood frame and masonry construction, nonmetallic-sheathed cable, electrical metallic tubing, flexible metal and rigid conduit are also covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprentice.

APPR 171 Inside Wireman Apprentice 1-B Credit Hours: 4 / Billing Hours: 4

Introduces IBEW/JATC apprentices to practical level electricity, use of meters to measure quantities, basic circuit calculations, basic household wiring installation, motor and transformer behavior investigation. Concepts in basic and vector algebra, and trigonometry to solve DC electric circuit problems, including units, Ohm's law, network analysis, series parallel and combination DC circuits inductance and capacitance, and a review of codes/standards will be covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprentice.

APPR 172 Inside Wireman Apprentice 1-C Credit Hours: 4 / Billing Hours: 4

Basic electrical safety practices, including state/federal standards/practices, in the home, laboratory and within construction and industry, construction and interpretation of prints emphasizing standard/nonstandard symbols are covered. Calculations of branch circuits, feeders, motor circuits and service sizes using the National Electrical Code. Uninterruptible power supplies, signaling and safety systems are also covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprentice.

APPR 173 Inside Wireman Apprentice 2-A Credit Hours: 4 / Billing Hours: 4

Structure and scope of the National Electrical Code, including how to locate Ohm's law, voltage drop, wire and conduit sizing and installation method code sections. Utilizes basic and vector algebra and trigonometry concepts to solve AC electric circuit problems. Network analysis, series parallel and combination AC circuits, inductance and capacitance are covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprentice.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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APPR 174 Inside Wireman Apprenticeship 2-B Credit Hours: 4 / Billing Hours: 4

Students will study the installation of nonmetallic sheathed cable, flexible metal conduit, electrical metallic tubing and rigid conduit. This is a practical introduction to AC theory. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 175 Inside Wireman Apprenticeship 2-C Credit Hours: 4 / Billing Hours: 4

Practical introduction to single- and three-phase transformers, motors and alternators. Construction and interpretation of prints emphasizing standard/nonstandard symbols. National Electrical Code and State of Michigan rules are reviewed. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 176 Inside Wireman Apprenticeship 3-A Credit Hours: 4 / Billing Hours: 4

This course introduces the student to solid-state circuitry used in industry. Students will study diodes, transistors, SCRs, triacs, optical isolators, transducers, power circuits, etc. Laboratory will include oscilloscope usage. The course also includes an introduction to Boolean algebra and digital circuits. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 177 Inside Wireman Apprenticeship 3-B Credit Hours: 4 / Billing Hours: 4

Introduction to Boolean algebra, digital circuits and solid-state circuitry used in industry. Diodes, transistors, SCRs triacs, optical isolators, transducers, power circuits, oscilloscopes etc. are studied and used. Installation of nonmetallic sheathed cable, flexible metal conduit, electrical metallic tubing and rigid conduit are practiced. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

APPR 178 Inside Wireman Apprenticeship 3-C Credit Hours: 4 / Billing Hours: 4

Interpretation and construction of prints emphasizing standard/nonstandard symbols. Calculate branch circuit, feeder, motor circuit, and service sizes using the National Electrical Code. Review of the National Electrical Code with focus on location and interpretation. Uninterruptible power supplies, signaling, safety systems and State of Michigan electrical rules are also reviewed. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 179 Inside Wireman Apprenticeship 4-A Credit Hours: 4 / Billing Hours: 4

Relay logic and controls using industrial standards are covered. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Students will wire three-phase motor control circuits utilizing two- and three-wire control, and machine control circuits utilizing limit and proximity switches, timers, relays, etc. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 180 Inside Wireman Apprenticeship 4-B Credit Hours: 4 / Billing Hours: 4

Covers relay logic and controls using industrial standards. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Wiring three-phase motor control circuits utilizing two- and three-wire control and machine control circuits utilizing limit and proximity switches, timers, relays, etc. are covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 181 Inside Wireman Apprenticeship 4-C Credit Hours: 4 / Billing Hours: 4

Construction and interpretation of prints emphasizing standard/nonstandard symbols. State of Michigan electrical rules and National Electrical Code (NEC) review focusing on locating and interpreting codes. Use of the index method to discuss interpretation of the NEC to calculate branch circuit, feeder, motor circuit and service sizes. Uninterruptible power supplies, signaling and safety systems are covered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

2025-2026 Course Descriptions

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APPR 182 Inside Wireman Apprenticeship 5-A Credit Hours: 4 / Billing Hours: 4

This course covers various code calculations using the NEC and state electrical code in preparation for the State of Michigan journeyman's exam. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 183 Inside Wireman Apprenticeship 5-B Credit Hours: 4 / Billing Hours: 4

For apprentices with field experience and basic electrical training. Covers security and fire alarm systems, sensors, instrumentation setup and calibration, theory of flow, pressure level, temperature, pneumatics, telephone wiring, high voltage safety and testing, heating, ventilating, air conditioning (HVAC) theory, programmable controllers, controls and troubleshooting, and uninterruptible power supplies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

APPR 184 Inside Wireman Apprenticeship 5-C Credit Hours: 4 / Billing Hours: 4

Covers programmable logic controllers with focus on common operating principles. Includes capabilities, similarities, and differences among controllers, programming (examine on/off, timers and counters) and connecting external devices to Allen-Bradley and Modicon. Includes review of the National Electrical Code and the State of Michigan electrical rules. (Offered Fall, Spring, Summer)

- Prerequisite Course: Current IBEW Electrical Apprenticeship.

ARCH 105 Architecture Appreciation Credit Hours: 2 / Billing Hours: 2

This course will introduce students to the practice of architecture and its allied professions while building a foundation for further coursework within the architecture curriculum. Fundamental aesthetic, social, and environmental issues in architecture and design, including practice, creative processes and electronic media will be examined. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARCH 107 Sustainable Site Design

Credit Hours: 3 / Billing Hours: 4

This course covers the fundamentals of landscape architecture and the reconnection of a site to its environment through the study of site analysis and design, earthwork and grading, accessibility, water conservation and supply, and landscaping. Preparation of sustainable site plan drawings will be created in accordance with course topics. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ((DCTM 101 or concurrently) or Architectural Drafting Placement Test 80%).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 110 Visual Communications I

Credit Hours: 3 / Billing Hours: 4

Architectural graphics is the focus of this course and will introduce students to basic techniques of freehand sketching, drafting, and perspective drawings. Rendering skills, shading, and introductory model building will also be addressed. The production of two-dimensional black and white architectural rendering and presentation drawings will be studied. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in DCTM 101 or concurrently or Architectural Drafting Placement Test 80%.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 111 Arch Design Fundamentals

Credit Hours: 3 / Billing Hours: 4

Examination of the principles and elements of two-dimensional design as it relates to architecture. Specific case studies of buildings that exemplify these theories as well as organization and circulation of space and form will be analyzed. Topics include basic design theory and practice, green design project application, and visual/verbal presentation techniques. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Recommended: ARCH 107 or concurrently.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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ARCH 113 Materials & Methods of Constr. Credit Hours: 4 / Billing Hours: 6

An introduction to and evaluation of building materials that explores the implications of design realities, material capabilities, code limitations, and regulations on the construction process. Social, environmental, and economic impacts, life-cycle analysis, cost, sourcing, energy efficiency, and value engineering including a value system for selecting environmentally preferable products will be discussed. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4.

ARCH 114 Architectural Drawing/CAD I Credit Hours: 4 / Billing Hours: 6

This course introduces architecture technology students to computer-aided drafting for residential application. Basic commands, drafting techniques, drawing accuracy, and industry standards will be emphasized. Lectures, in class demonstration, and lab sessions will be utilized to create two-dimensional residential drawings with value and importance placed on green design and sustainability. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in DCTM 101 or concurrently or Architectural Drafting Placement Test 80%.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 118 Architecture Design/Planning Credit Hours: 4 / Billing Hours: 6

One in a sequence of design studio courses focusing on programmatic green building design. Emphasis is on code, research, accessibility, and adaptive use while solving small to medium scale architecture design problems. Topics include environmental and site issues, space planning, and construction document development. Applied studio assignments build on knowledge and skills acquired. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ARCH 110 and ARCH 114).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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ARCH 120 Visual Communications II

Credit Hours: 3 / Billing Hours: 4

A continuation of Visual Communication I. Students will gain knowledge of basic color rendering techniques using a variety of media to enhance drawing skills and realistically render surfaces two/three-dimensionally. Specific shading, texture, light and composition techniques - both freehand and computer generated - will be explored. Composition/verbal presentation of projects will be emphasized. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ARCH 110.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

ARCH 124 Architectural Drawing/CAD II

Credit Hours: 4 / Billing Hours: 6

As the continuation of Architectural Drawing/Basic CAD I, students will build on their computer-aided drafting skills for commercial application. Drawing accuracy and industry standards will be emphasized. Lectures, in-class demonstration, and lab sessions will be utilized to create two dimensional commercial drawings. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ARCH 114.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.

ARCH 125 Environmental Systems

Credit Hours: 4 / Billing Hours: 4

This course is designed for students of both architecture and allied professions. All elements affecting interior environments of a commercial or residential structure, such as electrical and HVAC systems, water efficiency, sustainable site and material selection, and passive solar design will be studied. Energy efficient and responsible construction practices will be emphasized. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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ARCH 126 Architecture Model Building

Credit Hours: 3 / Billing Hours: 4

Students in this course will enhance their design and communication skills by developing various techniques for building three-dimensional architectural models. Projects constructed will range from the most basic of study model using readily available sustainable materials, to more sophisticated presentation models focusing on the use of responsible and earth sustaining materials. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (DCTM 101 or Architectural Drafting Placement Test 80%).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 141 History of Architecture I

Credit Hours: 3 / Billing Hours: 3

Beginning with ancient times, this course studies the major civilizations and works of architecture, and analyzes the form and function of the built environment contributed by the most significant of the Western civilizations. A variety of visual media will be used to present the major theories, architectural works, and the significant personalities contributing to architecture up to the Italian Renaissance. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ARCH 142 History of Architecture II

Credit Hours: 3 / Billing Hours: 3

This course is the second in a series of the study of architectural history of the western world. The works and figures of architecture and the decorative arts in western architectural history from the 1600's to contemporary times are examined. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARCH 146 Preservation/Adaptive Use Arch Credit Hours: 3 / Billing Hours: 4

An overview of the principles and practices of the greenest and most sustainable type of architecture; recycling, preservation, and adaptive use of existing buildings. Students will have the opportunity to work on an actual building using material forensic investigation to determine material conditions and history, apply adaptive use design, and sustainable preservation practices. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ARCH 110 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 218 Commercial Arch Planning Credit Hours: 4 / Billing Hours: 6

In this intermediate level course, students will use previously obtained drawing, research, and presentation skills to design, delineate, and present a light commercial project from basic schematics to presentation drawings. Students will be introduced to environmentally responsible design considerations and applications at the earliest design and planning stages of a project. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ARCH 114.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

ARCH 220 Commercial Arch Drawing Credit Hours: 4 / Billing Hours: 6

In this capstone course, students will complete a set of commercial construction documents based on their schematic design developed in ARCH218 using previously obtained CAD and structural theory skills. Students will further research appropriate energy saving design systems to minimize the environmental footprint of their building design. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ARCH 218.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARCH 233 Revit Architecture BIM I

Credit Hours: 4 / Billing Hours: 6

This course is an introduction to Autodesk's Revit Architecture, a three-dimensional building information modeling software (BIM) that generates all phases of design from concept sketches through construction documentation. Students will develop three-dimensional parametric models and standard two-dimensional construction drawings for typical construction use. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ARCH 235 Arch AutoCAD Independent Study Credit Hours: 1 to 4 / Billing Hours: 1 to 4

This course is intended to give advanced architectural students an opportunity to complete a special project(s) that relates to the student's curriculum. The student will research, outline, design and construct a project(s) of their own selection, with the approval and guidance of the instructor, using the AutoCAD software program. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

ARCH 243 Revit Architecture BIM II

Credit Hours: 4 / Billing Hours: 6

As the continuation of Revit Architecture BIM I, students will build on their three-dimensional building information software (BIM) and parametric modeling skills for construction drawings. Drawing accuracy and industry standards will be emphasized. Lectures, in-class demonstration, and lab sessions will be utilized to create two and three dimensional construction documents. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ARCH 233.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARCH 275 Sustainable Building Design

Credit Hours: 4 / Billing Hours: 6

This course is a capstone project lab that offers students the opportunity to apply advanced skills in sustainable energy efficient architectural design and building science at a project construction site. The course will incorporate concepts that were acquired in prior coursework. Specific content may vary based on project specific requirements. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

ARCH 290 Architectural Internship

Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Architectural Technology students with practical work experience in industry. Students work for an employer in a supervised environment that provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

ARCH 295 Arch Independent Study

Credit Hours: 1 to 4 / Billing Hours: 1 to 4

This course will give advanced architectural students an opportunity to complete a special project(s) that relates to their architectural curriculum. With the approval and guidance of an instructor, the students will research, outline, design, and construct a project(s) of their own selection. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

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ARTH 120 Masterpieces of Art & Music Credit Hours: 4 / Billing Hours: 4

This course is an introduction to the masterpieces of art and music from ancient to modern times. Artistic and musical innovations and contributions from Europe and America will be explored. The continuing influence and validity of art and music from the past on contemporary developments will be studied. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).
- Course Note: No art or music background required.

ARTH 211 Art History to the Renaissance Credit Hours: 4 / Billing Hours: 4

This course surveys the history of painting, sculpture, and architecture of world civilizations from preliterate times to the 15th century. It emphasizes analysis and comparison of artistic concepts, styles and techniques, and investigates how the arts reflect ideas, issues, and values of society and the individual. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ARTH 212 Art Hist from the Renaissance Credit Hours: 4 / Billing Hours: 4

Surveys the history of painting, sculpture, and architecture of world civilizations from the 15th to the 20th century. Emphasizes analysis and comparison of artistic concepts, styles and techniques; and investigates how the arts reflect ideas, issues, and values of society and the individual. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTH 216 Contemporary Art

Credit Hours: 4 / Billing Hours: 4

This course provides an overview of contemporary art in various media and examines theoretical and cultural influences on art from the late 20th century to the present. Students will be able to recognize and interpret most important aspects of contemporary art and contemporary visual culture. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

ARTS 102 2D Design

Credit Hours: 3 / Billing Hours: 4

An examination of visual communications theory, process and history. Students will study the universal elements and principles of two-dimensional design and their applications in digital and traditional media. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).
- Recommended: Computer experience.

ARTS 103 3D Design

Credit Hours: 3 / Billing Hours: 5.25

This is an introductory course exploring the elements and principles of three-dimensional design. The course will examine traditional and narrative-based potentials or materials and objects. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Students must purchase supplies/materials for this course, costing between \$50 and \$100.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTS 131 Drawing I

Credit Hours: 3 / Billing Hours: 5.25

An introductory course in visual thinking, conceptual drawing, and studio practices. Students will learn to translate verbal and written concepts through creative processes into visual information by creating sketches, developmental drawings, and finished imagery. Fundamental elements of drawing and principles of perspective, with a focus on drawing from observation, are covered. (Offered Fall, Spring, Summer).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Students must purchase supplies/materials for this course, costing between \$135 and \$150.

ARTS 132 Figure Drawing

Credit Hours: 3 / Billing Hours: 5.25

An intermediate level course in visual thinking, conceptual drawing, and studio practices exploring fundamental elements of drawing, visualization, and perception of the human figure, using a variety of drawing media and methods. Live models will be used. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in ARTS 131.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Students must purchase supplies/materials for this course, costing between \$135 and \$150.

ARTS 151 Color

Credit Hours: 3 / Billing Hours: 5.25

This is an introduction to additive and subtractive color theory and practice. Students explore how the color properties of hue, saturation, and value relate to design and examine color interactions, color relationships, and the physical and psychological effects of light and color. Digital and traditional color media are used. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 and ARTS 131.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course uses the Adobe CC Suite on Apple computers. Students can access Adobe Creative Cloud in the Gannon Computer classrooms and the LCC TLC Computer Lab or purchase the Adobe software.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTS 153 Drawing II

Credit Hours: 3 / Billing Hours: 4

This is an intermediate level course in visual thinking, conceptual drawing, and perspective drawing. Students will use creative processes to express verbal and written concepts as visual information ideate through preparatory drawings and develop visualizations with a variety of media. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 and ARTS 131.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Students must purchase supplies/materials for this course, costing between \$135 and \$150.

ARTS 162 Type Communications

Credit Hours: 3 / Billing Hours: 4

An introduction to the utilization of type in a variety of visual communications with an emphasis on creativity and problem solving. Students will be introduced to the tools and techniques of manual and digital type formatting in professional type layout for print and web purposes. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Online, Hybrid, and ORT students are required to have semester-long access to Adobe Illustrator CC. Students have access to this software in the LCC TLC Computer Lab.

ARTS 164 Digital Illustration

Credit Hours: 3 / Billing Hours: 4

A creative course applying/using vector-based illustration software. Students will draw by manipulation of algorithmically created arcs, lines, and curves to form shapes. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 and ARTS 131 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ARTS 162.
- Course Note: Online, Hybrid, and ORT students are required to have semester-long access to Adobe Illustrator CC.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTS 171 Adobe Photoshop

Credit Hours: 3 / Billing Hours: 4

This course provides an introduction to computer manipulation of digital images using Adobe Photoshop through projects, learning activities, assessments, and exploration of resources. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Adobe Photoshop CC software is used. Online, Hybrid, and ORT students are required to have semester-long access to Adobe Photoshop CC to complete their assignments. Students have access to these in the LCC TLC Computer Lab.

ARTS 173 Web Design I

Credit Hours: 3 / Billing Hours: 4

An introduction to the process and principles of web design. Students will utilize a combination of imaging software and code to develop visual mockups and functional layouts. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 171 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course utilizes a variety of software applications on Apple computers. Students have access to Adobe Creative Cloud in the Gannon Computer classrooms and the LCC TLC Computer Lab.

ARTS 175 Creative Design and Publishing

Credit Hours: 3 / Billing Hours: 4

An introductory course concerned with creative design and layout. The focus is on using Adobe Creative Cloud and incorporating the Adobe Creative Suite for layout, prepress, and repurposing. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 102 and ARTS 162 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Online, Hybrid, and ORT students are required to have semester-long access to Adobe Creative Cloud. Face-to-face course uses Adobe Creative Cloud on Apple computers.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTS 179 Web Design II

Credit Hours: 3 / Billing Hours: 4

This course builds on the fundamentals learned in Web Design I, exploring intermediate techniques and industry standards through projects, activities, and assessments. Topics include the web design workflow, user experience, and accessibility. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ARTS 173.
- Placement Score: Reading Level 5 and Writing Level 6.

ARTS 183 Design History

Credit Hours: 3 / Billing Hours: 3

An introductory course that examines the theory, practice, and development of modern and contemporary design practices. The emphasis is on conceptual styles and techniques used to achieve aesthetically pleasing design. This course investigates how historical design styles and techniques reflect and affect design ideas, issues, and socio-cultural values. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ARTH 212 (formerly HUMS 212).
- Course Note: Online, Hybrid, and ORT students are required to have semester-long access to Adobe Illustrator or Photoshop CC.

ARTS 195 Employ/Busn Issues for Artists

Credit Hours: 1 / Billing Hours: 1

An introduction to business, legal, and marketing issues relevant to visual artists. Students will be introduced to copyright, contracts and negotiation concerns, and basic record keeping. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

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ARTS 200 Painting I

Credit Hours: 3 / Billing Hours: 5.25

An introduction to oil and/or acrylic painting. The course examines the basic materials, tools, techniques, and modes of expression of painting. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ARTS 131.
- Placement Score: None.
- Course Note: Students must purchase supplies/materials for this course, costing between \$175-\$200.

ARTS 201 Painting II

Credit Hours: 3 / Billing Hours: 5.25

A continuation of Painting I (ARTS200) emphasizing more advanced techniques and increasingly complex problems in painting. A variety of media, techniques, and approaches is explored. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 200.
- Placement Score: None.
- Course Note: Students must purchase supplies/materials for this course, costing between \$175-\$200.

ARTS 202 Design for Innovation

Credit Hours: 3 / Billing Hours: 4

Students will explore Design Thinking methodology, focusing on human centered solutions through materials, language, and principles of design. Students will also examine the importance of ethnography, research, prototyping, and testing, and pursue sustainable design solutions for social consciousness. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ARTS 102 or concurrently.

ARTS 226 Storyboards & Animatics

Credit Hours: 3 / Billing Hours: 4

Focuses on applying industry-standard storyboarding and animatic techniques. Topics include the purposes and formats of storyboards and the application of storyboarding techniques to the creation of storyboards with or without a written script. Completed storyboards will be digitized and edited using various software to produce an animatic. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 151.
- Placement Score: Reading Level 5 and Writing Level 6.



2025-2026 Course Descriptions

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ARTS 229 Web Design III

Credit Hours: 3 / Billing Hours: 4

An advanced course in interactive design and its application to online spaces. Students will focus on the conceptualization, structuring, and best practices of site design and development. Topics include digital campaigns and creative uses of web technology. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ARTS 179.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course utilizes a variety of software applications on Apple computers. Students have access to Adobe Creative Cloud in the Gannon Computer classrooms and the LCC TLC Computer Lab.

ARTS 232 Comp Graphics/2D Animation

Credit Hours: 3 / Billing Hours: 4

An introduction to 2D animation using computer software. Students will apply theory and principles of the medium to animated characters and infographics. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in ARTS 132 and ARTS 151 and ARTS 171.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course uses Adobe Creative Suite on Apple computers. Students have access to Adobe Creative Cloud in the Gannon Computer classrooms and the LCC TLC Computer Lab.

ARTS 234 Comp Graphics/3D Animation I

Credit Hours: 3 / Billing Hours: 4

Concepts and techniques of 3D computer animation. An introduction to the world of Digital Form, Space and Lighting. Topics covered in this course include the theories of 3-D space, surface modeling, rendering, lighting and key frame animation. Includes an overview of the history of 3D computer modeling, rendering and animation. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in ARTS 105 or ARTS 171.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: PHYS 120.

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2025-2026 Course Descriptions

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ARTS 235 Comp Graphics/3D Animation II Credit Hours: 3 / Billing Hours: 4

This course builds upon ARTS234. It continues the approach of increasing skills and artistic practice in all areas of 3Danimation: concept, modeling, animation and rendering. Course also includes topics such as: texture mapping, particle systems, dynamic simulation and basic kinematic techniques. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 234.
- Placement Score: Reading Level 5 and Writing Level 6.

ARTS 240 Art for Elementary Teachers Credit Hours: 3 / Billing Hours: 4

Especially for elementary school teachers responsible for the student art experience. Emphasis on developing a greater art appreciation, awareness of art forms, and competency working with a variety of art media. Covers the creative and mental growth of children and their needs in an art situation. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: EDUC 201 and EDUC 220.
- Course Note: EDUC201 and EDUC220 are prerequisites for this course to transfer to Central Michigan University.

ARTS 251 Graphic Design Communications Credit Hours: 3 / Billing Hours: 4

A comprehensive overview of design communications and the role of the digital designer. Methods, computer software, and hardware issues will be covered with the focus on persuasive design communications. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in ARTS 175.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course uses the Adobe CC Suite on Apple computers. Online, Hybrid, and ORT students are required to have semester-long access to Adobe Creative Suite.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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ARTS 252 Graphic Design Publications

Credit Hours: 3 / Billing Hours: 4

Publication design and the graphic artist's role in design and production of longer documents is the focus of this advanced collaborative course. The emphasis is on concept, typography and visual elements in a weekly, monthly or quarterly publication. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 251.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course uses the Adobe CC Suite on Apple computers. Online, Hybrid, and ORT students are required to have semester-long access to Adobe Creative Suite.

ARTS 253 Graphic Design Branding

Credit Hours: 3 / Billing Hours: 4

This advanced class focuses on branding of products and services for mass market advertising. The course will focus on aspects relevant to a marketing campaign as well as on creating innovative concepts and developing an effective personal design style. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 251.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course uses the Adobe CC Suite on Apple computers. Online, Hybrid, and ORT students are required to have semester-long access to Adobe Creative Suite.

ARTS 266 Figure Drawing II

Credit Hours: 3 / Billing Hours: 4

This course further develops the skills in both observational and conceptual drawing introduced in ARTS 132, with an emphasis on the process of image-making. Students will explore topics such as treatments of subject and environment, single vs. multiple subjects, visualization of human anatomy, and digital drawing. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in ARTS 132.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).
- Recommended: Minimum 2.0 in ARTS 153.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ARTS 267 Adv Drawing Digital Sketchbook Credit Hours: 3 / Billing Hours: 4

This course further develops the skills in both observational and conceptual drawing introduced in ARTS 131, ARTS 132, and ARTS 153, with an emphasis on the process of image-making in digital tablet format. Students will explore topics such as imaginative treatments of subject and environment, serial imaging, materiality, and digital drawing. Some figure drawing may be included. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ARTS 131 and minimum 2.5 in (ARTS 132 or ARTS 153).
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ARTS 266.

ARTS 269 The Portfolio Credit Hours: 2 / Billing Hours: 2

Under advisor supervision, students will assemble their best work into a cohesive, relevant presentation for the purpose of securing career-oriented employment. Job search/market skills content, including creative resumes, letter-writing, and self-promotion will focus on matching individual presentations to specific career goals. ARTS269 is intended as the final program course. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is Required.
- Placement Score: None.
- Course Note: Fine Art and transfer students should see an Art, Design and Multimedia advisor before enrolling in ARTS 269. Please check with the Communication, Media and the Arts Department Office in GB 1222 for current department approval forms.

ARTS 281 Art Internship Credit Hours: 3 / Billing Hours: 3

Students will gain pre-career experience by working in a professional environment under the supervision of a professional artist/designer. Regularly scheduled progress reports will be given and discussed with supervising faculty member. A typical internship will average 160-210 hours in a semester. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.



2025-2026 Course Descriptions

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ASTR 201 Introductory Astronomy

Credit Hours: 4 / Billing Hours: 5

A survey course of astronomy. Topics include the celestial sphere, apparent motions, and orbital mechanics; the nature of and interaction between matter and light, spectroscopy, and astronomical instrumentation; the Earth, the Moon, the Sun, the solar system and exoplanets; stellar characteristics and evolution, nucleosynthesis; and galaxies and cosmology. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.
- Course Note: It is recommended that students taking ASTR 201 have taken a High School Physics or Physical Science course.

AUTM 102 Automotive/Collision Safety

Credit Hours: 1 / Billing Hours: 1

This course will introduce students to automotive industry standard practices for shop safety, tool safety, and personal safety. Students will be familiarized with shop policies and procedures including hazardous waste disposal, along with laws and regulations that affect automotive repair facilities. Students will learn how to use various types of lifting equipment. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [Minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$16 of the Course Fee is non-refundable.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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AUTM 111 Automotive Electrical I

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in automotive electrical systems. Topics include electrical system theory and operation, diagnosis, and repair of automotive electrical/electronic circuits, electrical wiring, battery, and starting and charging systems. This course meets NATEF Master Automotive Service Technology (MAST) standards for electrical/electronic systems. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 102 or concurrently) or AUTM 101].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [Minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

AUTM 113 Automotive Electrical II

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in automotive electrical systems. Topics include electrical system theory and operation, diagnosis, and repair of automotive comfort and convenience accessories, instrumentation, and lighting circuits. This course meets NATEF Master Automotive Service Technology (MAST) standards for electrical/electronics systems. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

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AUTM 125 Manual Drive Train and Axles

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in manual drivetrains and axles. Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, repair, and overhaul of manual transmissions/transaxles, clutch systems, differentials, four-wheel drive systems, and other driveline components. This course meets NATEF Master Automotive Service Technology (MAST) standards for manual transmissions. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 102 or concurrently) or AUTM 101].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

AUTM 126 Automatic Transmissions

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in automatic transmissions. Topics include transmission theory and operation, maintenance, diagnosis, disassembly, inspection, repair, and overhaul of modern electronic automatic transmissions/transaxles. This course meets NATEF Master Automotive Service Technology (MAST) standards for automatic transmissions. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

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AUTM 131 Automotive Engine Repair

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in automotive engine repair. Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, repair, and overhaul of engines, cooling systems, lubrication systems, and in-vehicle and out-of-vehicle engine servicing. This course meets NATEF Master Automotive Service Technology (MAST) standards for engine repair. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

AUTM 141 Braking Systems and ABS

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in braking systems. Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, and repair of disc and drum braking systems, anti-lock brake/traction control systems, and related brake components. This course meets NATEF Master Automotive Service Technology (MAST) standards for brakes. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AUTM 151 Suspension and Steering

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in suspension and steering. Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, and repair of suspension and steering systems, wheel alignment, wheels and tires, and steering/suspension related components. This course meets NATEF Master Automotive Service Technology (MAST) standards for suspension and steering. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

AUTM 161 Auto Heating/Air Conditioning

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in heating and air conditioning. Topics include theory and operation, maintenance, diagnosis, inspection and repair of automobile heating, ventilation, and air conditioning systems; and recovery, recycling, and handling of refrigerants. This course meets NATEF Master Automotive Service Technology (MAST) standards for heating, ventilation, and air conditioning. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [(AUTM 111 or concurrently) or (HERT 125 or concurrently) or AUTM 110].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

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AUTM 180 Intro to Alternative Fuels

Credit Hours: 2 / Billing Hours: 2

Students will use various sources in the alternative fueled vehicle industry to learn what alternative fuels are available. Students will examine the need for alternative fuels including: Propane, Natural Gas, Ethanol and Biodiesel. Students will also learn about new technologies such as Electric Drive and Hydrogen fueled vehicles as well as Fuel Economy and Idle Reduction considerations. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

AUTM 185 Automotive Special Topics Credit Hours: .25 to 8 / Billing Hours: .25 to 11

The Automotive Special Topics series will feature topics related to the automotive industry. The lectures will allow participants to explore a wide variety of topics that will range from State of Michigan Recertification and Alternative Fuels to Advanced Drivability Diagnosis. Specific topics vary each semester; check the semester schedule book for topics to be offered. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section.

AUTM 211 Automotive Electrical III

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in this subject area. Topics include theory and operation, diagnosis, and repair of comfort and convenience accessories, restraint systems, computer multiplexing, entertainment/navigation systems, and advanced electrical technologies. This course meets NATEF Master Automotive Service Technology (MAST) standards for electrical/electronics systems. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (AUTM 113 or concurrently)
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

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2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AUTM 225 Transmissions and Drivelines

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in Transmissions and Drivelines. Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, and repair of transmissions/transaxles, clutch systems, differentials, four-wheel drive systems, and other driveline components. This course meets Automotive Service Excellence Education Foundation (ASEEF) Master Automotive Service Technology (MAST) standards. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (AUTM 211 or Concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106 or P in NCMA 106 or NCMA110).

AUTM 270 Gas Eng Drivability Diagnosis

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in this subject area. Topics include theory and operation, maintenance, diagnosis, and repair of engine mechanical integrity, fuel delivery systems, powertrain computer systems, and air induction and exhaust systems. This course meets NATEF Master Automotive Service Technology (MAST) standards for engine performance. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [(AUTM 211 or concurrently) or AUTM 210].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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AUTM 273 Lt. Diesel Drivability Diag.

Credit Hours: 4 / Billing Hours: 6

This course covers engine management of a light duty diesel engine, including diagnosis and repair of electronic diesel fuel injection systems, air induction systems, particulate filter systems and oxidation catalyst systems. This course meets NATEF Automotive Service Technology (AST) and Master Automotive Service Technology (MAST) standards for light diesel engine control systems. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (AUTM 270 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

AUTM 275 Ignition/Emission Sys Diag.

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE and State of Michigan certification testing in ignition and emissions systems. Topics include theory and operation, maintenance, diagnosis, and repair of ignition and emission control systems and computer devices that cause emissions failures. This course meets NATEF Master Automotive Service Technology (MAST) standards for engine performance. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (AUTM 270 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. Books are included as part of the course fee. \$35 of the Course Fee is non-refundable.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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AUTM 280 Electric/Fuel Cell Technology

Credit Hours: 2 / Billing Hours: 2.5

This course is designed to help prepare the student to enter the automotive repair and service industry in the area of alternative fuels and advanced technology vehicles. It is an intensive study of vehicle electric and fuel cell theory, application, installation, diagnosis, service and safety regulations. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [AUTM 180 and (AUTM 270 or concurrently)].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. See course syllabus for textbook information. \$40 of the Course Fee is non-refundable.

AUTM 282 Gaseous Fuels

Credit Hours: 3 / Billing Hours: 4

This course is designed to help prepare the student to enter the auto repair and service industry in the area of alternative fuels and advanced technology vehicles. It is an intensive study of three gaseous fuels - natural gas, propane and hydrogen. Theory, application, installation, diagnosis and safety regulations will be covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [AUTM 180 and (AUTM 270 or concurrently)].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. See course syllabus for textbook information. \$40 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AUTM 284 Hybrid Systems & Maintenance Credit Hours: 4 / Billing Hours: 6

This course introduces the student to the features of the Internal Combustion Engine (ICE) as they apply to the hybrid vehicle, hybrid drive systems (transaxles and gears), brake systems, HVAC systems, and cooling systems service. First responder, predictive maintenance procedures, hybrid trucks, and Belted Alternator System (BAS) are also examined. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (AUTM 180 and AUTM 270).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. See course syllabus for textbook information.

AUTM 286 xEV Energy & Support Systems Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE Certification Testing in Electrified Propulsion Vehicles (xEV). Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, and repair of high voltage battery systems, Hybrid Internal Combustion Engines, xEV Supporting Systems, high voltage safety precautions, personal protective equipment (PPE), and high voltage tools and equipment. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (AUTM 180 and AUTM 270).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. See course syllabus for textbook information.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

AUTM 288 xEV Propulsion & Drive Systems Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE Certification Testing in Electrified Propulsion Vehicles (xEV). Topics include theory and operation, maintenance, diagnosis, disassembly, inspection, and repair of xEV drive systems/power electronics, high voltage safety precautions, personal protective equipment (PPE), and high voltage tools and equipment. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (AUTM 286 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students need to bring their own safety glasses and dress in appropriate work clothes to start working in the lab on the first day of class. See course syllabus for textbook information.

AUTM 290 Automotive Internship Credit Hours: 1 to 4 / Billing Hours: 1 to 4

Students are able to earn credits while employed as an intermediate/advanced level technician in an auto mechanic shop or dealership. The program coordinator must approve the training station and working conditions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AUTM 296 Automotive Independent Study Credit Hours: 1 to 4 / Billing Hours: 1 to 4

Special research projects and/or individual readings are used to apply personal and professional experience to the academic area of interest. A presentation or written report is required at the end of the project. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AUTM 298 Automotive Service Laboratory Credit Hours: 2 to 6 / Billing Hours: 2 to 6

This laboratory course is designed to provide work experience and develop trade-entry skills in general and light-line repair. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

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2025-2026 Course Descriptions

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AVAF 125 Aircraft Systems I

Credit Hours: 2 / Billing Hours: 2.75

The study of fuel management, transfer, defueling and fuel pump systems. The course covers the procedures used to inspect, check, service, troubleshoot and repair aircraft fuel systems and fuel system components. Course material emphasizes fluid quantity indicating, fluid pressure and warning systems. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 126 Aircraft Systems II

Credit Hours: 6 / Billing Hours: 8.25

This course covers the study, analysis and repair of aircraft landing gear and brake systems and their related warning systems. It also includes the study, inspection, servicing and repair of aircraft hydraulic and pneumatic systems and their related components. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 127 Aircraft Systems III

Credit Hours: 3 / Billing Hours: 4

This course covers the inspection, checking, troubleshooting, servicing and repair of aircraft heating, cooling, air-conditioning, pressurization, oxygen, ice and rain control, and fire protection systems. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 134 Aircraft Instruments

Credit Hours: 2 / Billing Hours: 2.75

This course covers inspection, checking, servicing, troubleshooting, repair of electronic flight instrument systems, both mechanical and electrical speed, altitude, temperature, pressure and flow instrument systems. Also, special removal and installation techniques applicable to aircraft instruments are included. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.



2025-2026 Course Descriptions

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AVAF 140 Aircraft Welding

Credit Hours: 2 / Billing Hours: 3

Presents welding applications and methods used in repairs and inspection of aircraft structures in accordance with approved aviation maintenance techniques. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

AVAF 208 Aircraft Structures I

Credit Hours: 4 / Billing Hours: 5.5

This course introduces the procedures for identification, inspection, testing and repairing of wood, fabric-covered and sheet metal aircraft. The installation and removal of conventional rivets, forming of aircraft sheet metal, installation of special rivets and fasteners, and an introduction to applying finishing materials will also be covered. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 209 Aircraft Structures II

Credit Hours: 4 / Billing Hours: 5.75

This course covers assembly and rigging of fixed wing and rotary wing aircraft control structures. It provides practical application in removal, installation and adjustment of flight controls by balancing, cable tension and motion studies. Aircraft inspection procedures to insure conformity with flight safety standards will be included. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.



2025-2026 Course Descriptions

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AVAF 210 Aircraft Structures III

Credit Hours: 4 / Billing Hours: 6

An advanced course covering inspection, testing and repair of fiberglass, plastics, honeycomb, composite and laminated structures. This course introduces the procedures for identification, inspection, testing, and repairing of wood, fabric-covered aircraft. Installation and removal of special fasteners for bonded and composite structures and servicing of aircraft windows is included. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 211 Aircraft Electrical I

Credit Hours: 4 / Billing Hours: 5.75

An intermediate aviation electrical course concentrating on theory, calculation and measurement of A.C. electrical systems. Includes reading and interpreting aircraft electrical circuit diagrams, including those with solid-state devices and logic functions. The installation, checking and servicing of airframe and engine wiring, controls, switches, indicators and protective devices are also covered. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAF 212 Aircraft Electrical II

Credit Hours: 4 / Billing Hours: 5.75

Repair of airframe and engine electrical system components with an emphasis on the inspection, checking, servicing and repair of alternating and direct current systems. General troubleshooting techniques are practiced with special emphasis on A.C. and D.C. electrical systems. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

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AVAF 246 Airframe Certification

Credit Hours: 1 / Billing Hours: 1.5

Study of the Federal Aviation Regulations pertaining to national certification as a licensed airframe mechanic. Includes testing in all required areas of study as a prerequisite to receiving authorization to take the general and airframe national certification test administered by representatives of the Federal Aviation Administration. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVAU 100 Drone Flight Orient.-FAA Exam

Credit Hours: 2 / Billing Hours: 2.5

This course covers the fundamentals of unmanned aircraft systems (UAS) pertaining to UAS regulations, National Airspace restrictions, weather effects, UAS performance, human factors, operational pre-flight activities and in-flight control, recordkeeping, and logbooks. This course will prepare the student for the Title 14 CFR Part 107 FAA written examination. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

AVAU 150 Drone Maintenance

Credit Hours: 2 / Billing Hours: 3

This course will concentrate on the proper maintenance and repair of the components of unmanned aircraft systems (UAS). Students will learn operator maintenance, inspections, battery systems and maintenance, communication and instrumentation systems, rigging and assembly, and electrical troubleshooting. Students will gain the knowledge to identify technical problems associated with UAS. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in AVAU 100 or concurrent.
- Placement Score: Reading Level 5 and Math Level 4.

2025-2026 Course Descriptions

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AVAU 200 Advanced Drone Flight-Capstone Credit Hours: 2 / Billing Hours: 3

This Capstone course provides an in-depth review of the UAS program content. Students will present examples of program-related tasks to faculty and peers. Students will demonstrate skills learned throughout the program, including in a variety of drone missions for potential future clients. Drone flight is included in class laboratory sessions. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in AVAU 100.
- Placement Score: Reading Level 5 and Writing Level 4.

AVEL 202 Flight Line Testing Credit Hours: 3 / Billing Hours: 4

This course is a practical study of the electronics systems found aboard modern aircraft, focusing on the flight line testing of such systems as communications, navigation, radar, and autopilots. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVGM 111 Aviation General I Credit Hours: 4 / Billing Hours: 5

This course is designed to develop the skills and knowledge required to weigh an aircraft and record the appropriate data. It involves mathematical and basic physics principles related to aviation, including aerodynamics, theory of flight, aircraft structural design and simple machines. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: Reading Level 3.

AVGM 112 Aviation General II Credit Hours: 6 / Billing Hours: 8

Introduces the Federal Aviation Regulations involving the mechanic's privileges, limitations and related aviation operations. Includes the selection and use of aviation publications, maintenance forms, records, reports, aircraft drawings, graphs and charts, symbols, blueprints and system schematics. Also focuses on aircraft ground operations and servicing of related aircraft systems. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: Reading Level 3.

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AVGM 113 Aviation General III

Credit Hours: 4 / Billing Hours: 5

This initial aviation electrical course offers instruction in basic electrical theory and its aviation application. It includes the calculation and measurement of voltage, current resistance, continuity and power; and the theory, inspection and servicing of aircraft lead-acid and ni-cad batteries. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: Reading Level 3.

AVGM 114 Materials and Processes

Credit Hours: 5 / Billing Hours: 7

This course covers identification and selection of the appropriate aviation hardware, hand tools, cleaning materials, fluid lines and nondestructive testing methods. Performance of nondestructive testing, precision measurements, aircraft cleaning and corrosion control, fabrication, installation and testing of fluid lines is included. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: Reading Level 3.

AVPP 241 Reciprocating Engine

Credit Hours: 8 / Billing Hours: 11.25

Presents the theory and practices used in the removal, inspection, overhaul, service, repair and installation of reciprocating engines. This course also studies the inspection, service, repair and troubleshooting of reciprocating engine lubrication systems. (Offered Fall)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 251 Reciprocating Engine Systems

Credit Hours: 2 / Billing Hours: 2.5

This course covers the inspection, servicing, troubleshooting and repair of reciprocating engine cooling and exhaust systems. In addition, the inspection requirements necessary to meet established conformity and standards of airworthiness are studied; and reciprocating engine operations and adjustments are conducted using FAA and maintenance publication procedures. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

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2025-2026 Course Descriptions

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AVPP 253 Reciprocating Ignition Systems Credit Hours: 5 / Billing Hours: 6.75

This course covers the operation, analysis, inspection, service and repair of reciprocating engine ignition systems and components. This includes magnetos, ignition harnesses, spark plugs and starter systems. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 255 Reciprocating Induction Sys Credit Hours: 4 / Billing Hours: 5.5

Study and analysis of reciprocating engine fuel systems and components. Includes inspection, checking, servicing, troubleshooting and repair of carburetors, water injection systems, heat exchangers, superchargers, intake and induction manifolds and other engine fuel system components. Also includes carburetor overhaul procedures. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 257 Aircraft Propeller Systems Credit Hours: 4 / Billing Hours: 5.5

Covers the study, analysis, service and repair of aircraft propellers, systems and controls. Includes propeller synchronizing, ice control, lubrication, balancing, pitch control, repair procedures and removal, and installation of both fixed-pitch and variable-pitch propellers. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 259 Turbine Engine I Credit Hours: 4 / Billing Hours: 5.5

This course covers the theory of operation and design of the varied turbine engine powerplants and turbine-driven auxiliary power unit types, including the induction and cooling systems of each. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

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AVPP 261 Turbine Engine II

Credit Hours: 4 / Billing Hours: 5.5

This course covers inspection, checking, servicing, repair, removal, installation and troubleshooting of turbine engines and systems. A detailed study of the lubrication system and inspection procedures to insure conformity with FAA specifications and standards are included. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 263 Turbine Engine Systems

Credit Hours: 2 / Billing Hours: 2.75

This course is a detailed study of turbine-engine ignition, pneumatic and electric starters, exhaust and thrust reverser, fire detection and protection, fuel metering and electronic fuel control systems and components. Study also includes inspection, checking, servicing, repair and troubleshooting procedures. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 265 Powerplant Instruments

Credit Hours: 2 / Billing Hours: 2.5

This course covers the inspection and repair of turbine and reciprocating engine instruments. Troubleshooting of mechanical/electrical fluid rate-of-flow, temperature, pressure, RPM and airflow indicators will be included. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

AVPP 267 Powerplant Certification

Credit Hours: 1 / Billing Hours: 1.5

Study of the Federal Aviation Regulations pertaining to national certification as a licensed powerplant mechanic. Includes testing in all required areas of study as a prerequisite to receiving authorization to take the powerplant national certification tests administered by representatives of the Federal Aviation Administration. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

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BIOL 120 Environmental Science

Credit Hours: 4 / Billing Hours: 6

Students will develop an ecological knowledge base to allow them to understand how human actions impact the environment. They will develop applied analytical skills through laboratories, fieldwork, simulations and a discussion of contemporary issues. They will investigate and evaluate basic ecological and environmental issues. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (NCAS 102 and ENGL 121 concurrently).
- Course Note:
 - o 1) An online course also has some labs requiring students to physically tour a field lab facility or to do simple experiments at home.
 - o 2) Not for Biology or Pre-Medical Studies Majors: BIOL 120 is not on the Pre-Medical Studies or Biology degree pathways, which means it will not count toward your major and enrolling in this course may negatively impact your financial aid. Such majors may want to consider enrolling in Biol 127 instead of BIOL 120. Please contact your academic advisor if you have any questions.

BIOL 121 Biol Foundation for Physiology

Credit Hours: 4 / Billing Hours: 6

Topics include atomic structure, chemical bonding, biological molecules, metabolism, cell structure and function, harvesting energy, cell division, central dogma, and genetics. Designed for students preparing for health careers and veterinary nursing. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: CHEM 120 or High School Chemistry.
- Course Note: Not for Biology or Pre-Medical Studies Majors: Biol 121 is not on the Pre-Medical Studies or Biology degree pathways, which means it will not count toward your major and enrolling in this course may negatively impact your financial aid. Such majors may want to consider enrolling in Biol 127 instead of Biol 121. Please contact your academic advisor if you have any questions.

2025-2026 Course Descriptions

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BIOL 125 Intro Biology for Non-Majors

Credit Hours: 4 / Billing Hours: 6

This is an introductory biology course for non-science majors. Lecture and lab topics include cell theory, evolution, a survey of life, and basic plant and animal anatomy. Students will analyze scientific data and investigate current biological issues. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

BIOL 127 Cell Biology

Credit Hours: 4 / Billing Hours: 6

This course includes the biochemistry of carbohydrates, lipids, proteins, respiration, and photosynthesis. Prokaryotic and eukaryotic cell structure and function, molecular genetics, regulation of gene expression, and biotechnology are explored. Laboratory stresses techniques of cell and molecular biology and molecular genetics. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Recommended: Minimum 2.0 in (CHEM 120 or CHEM 125) or (minimum 2.0 in CHEM 151 or concurrently).

BIOL 128 Organismal Biology

Credit Hours: 4 / Billing Hours: 6

This course examines adaptations of organisms to changing environments. Major emphasis is on physiological adaptations, natural selection, and ecology. Lab topics include a survey of the kingdoms, behavior experiments, and field studies. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: Minimum 2.0 in BIOL 127.

2025-2026 Course Descriptions

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BIOL 145 Intro Anatomy and Physiology

Credit Hours: 4 / Billing Hours: 6

A lecture and laboratory course in anatomy and physiology focusing on structure and function of human body systems. Designed for allied health care and non-science majors. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

BIOL 201 Human Anatomy

Credit Hours: 4 / Billing Hours: 6

A lecture and laboratory study of the anatomy of the human body that includes the structures of the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive systems. Designed for students preparing for allied health professions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: Minimum 2.0 in (BIOL 121 or BIOL 127 or CHEM 120 or CHEM 151).
- Course Note: This course includes on-site proctored exam(s) for all online and/or hybrid sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

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BIOL 202 Human Physiology

Credit Hours: 4 / Billing Hours: 5

The physiology, regulation, biochemistry, and integration of various organ systems in the human body are presented. Emphasis is on normal function, but appropriate clinical aspects may be discussed. Laboratory topics complement the lecture. Designed for students preparing for health professions and other life sciences. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (BIOL 201 or concurrently) and minimum 2.0 in MATH 109 or (MATH 119 or MATH 120 or STAT 170 concurrently) or Math Level 5 noted below.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.
- Course Note: This course includes on-site proctored exam(s) for all online and/or hybrid sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

BIOL 203 Microbiology

Credit Hours: 3 / Billing Hours: 3

An introduction to bacteria, viruses, and other microorganisms as they relate to human health. Emphasis on bacterial and viral structure, life cycles, and genetics; antimicrobial therapy; immunology and host defenses; epidemiology, treatment, and prevention of infectious human diseases. Designed for health career and other science students. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: Minimum 2.0 in (BIOL 121 or BIOL 127 or CHEM 120 or CHEM 151).
- Course Note: This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

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BIOL 204 Microbiology Laboratory

Credit Hours: 1 / Billing Hours: 3

Basic laboratory principles of microbiology for allied health students. Emphasis on microscopy, aseptic cultivation and enumeration of microorganisms, differential staining, assays of antimicrobial agents, and diagnostic laboratory techniques. Students will identify unknown bacterial species. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in BIOL 203 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 5 or minimum 2.0 in MATH 109 or (MATH 119 concurrently or STAT 170 concurrently)].

BIOL 210 Natural Resource Conservation

Credit Hours: 4 / Billing Hours: 6

This course examines the renewable natural resources and the policies which govern their use in Michigan. Lecture topics include ecology, water, wildlife, forests, and soils. Laboratory investigations include measurement techniques, environmental problem solving and field studies. (Offered Fall).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

BIOL 260 Botany

Credit Hours: 4 / Billing Hours: 6

An introduction to the study of plants that includes structure and function, development, and ecology. Emphasis will be placed on the diversity, adaptations, and life cycles of major plant groups. Laboratory will complement the basic concepts with emphasis on physiology, systematics, and species of value to medicine and agriculture. (Offered Fall).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6. Recommended: One semester of college-level biology.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BIOL 265 Zoology

Credit Hours: 4 / Billing Hours: 6

Topics include principles of taxonomy; early animal development; the diversity of animal body plans; and protozoan biology. Course deals principally with taxonomy, early development, and comparative anatomy of members within the animal phyla and classes. Groups are surveyed in a phylogenetic approach. (Offered Spring).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: One semester of college-level biology.

BIOL 270 Human Genetics

Credit Hours: 3 / Billing Hours: 3

Presents general principles of genetics with specific human application. Topics include Mendelian genetics, mitosis and meiosis, chromosome structure and aberrations, sex determination and x-linkage, molecular basis of inheritance, gene mutations, genetics of immune system, cancer genes, recombinant DNA technology, and genetic screening and counseling. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: One semester of college-level biology.
- Course Note: This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

BIOL 275 Molecular Biology I

Credit Hours: 4 / Billing Hours: 6

Principles and current trends of molecular biology and biochemistry of DNA/RNA structure, gene expression, function, and replication are explored. Laboratory training emphasizes reagents, culturing bacteria, isolating, purifying, manipulating, and analyzing DNA using modern techniques such as PCR, bioinformatics, and CRISPR. This is the first course in a two-course sequence. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in BIOL 127 and CHEM 151 and CHEM 161.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

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Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BIOL 276 Molecular Biology II Credit Hours: 4 / Billing Hours: 6

Continuation of BIOL 275. Advanced lecture and laboratory topics in molecular biology and biochemistry in gene analysis, gene sequencing, and applications of molecular biotechnology. Laboratory activities include gene cloning and genome editing experiments, and molecular analysis of protein structure and function. This is the second course in a 2-course sequence. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in BIOL 275.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

BLDT 120 Structural Framing Credit Hours: 4 / Billing Hours: 6

This course covers the key concepts for furnishing and installing various components related to floors, walls, and roofs for new and existing residential and light commercial construction according to industry standards and code specifications. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

BLDT 130 Building Exterior Construction Credit Hours: 4 / Billing Hours: 6

This course covers the key concepts for furnishing and installing various exterior components such as roofing, siding, doors, and windows for new and existing residential and light commercial construction according to industry standards and code specifications. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: BLDT 120 or BLDT 121.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BLDT 140 Building Interior Construction

Credit Hours: 4 / Billing Hours: 6

This course covers the key concepts for furnishing and installing various components related to floor finish, wall finish, ceilings, millwork, and interior doors for new and existing residential and light commercial construction according to industry standards and code specification. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: (BLDT 120 or BLDT 121) and (BLDT 130 or BLDT 125).

BLDT 150 Intro Masonry/Concrete Const

Credit Hours: 4 / Billing Hours: 6

This course introduces the basic properties and practices of concrete construction and masonry construction. Upon completion of this course, students will have the knowledge and skills necessary to take the ACI (American Concrete Institute) certification exam for Flatwork Technician. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

BLDT 160 Steel Framing

Credit Hours: 4 / Billing Hours: 6

Students will learn commercial metal stud framing, step-by-step methods to master high-speed metal framing, and learn about new tools, materials and equipment. Students will be introduced to technical and practical experience with light gauge stud design and standards. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: BLDT 120 or BLDT 121 or concurrently.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BLDT 180 Builder Pre-Licensure Prep

Credit Hours: 4 / Billing Hours: 4

This course will provide the student with the information needed to pass the Michigan Builder's License Examination as well as techniques for running a successful contracting business. It is approved by the State of Michigan and satisfies the 60-hour pre-license course requirement. The program is for anyone who is interested in becoming a licensed contractor in Michigan. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course fulfills the State of Michigan 60-hour requirement to apply for a Residential Builder or Maintenance & Alteration Contractor license. If you need more information, call 517-483-5338.

BLDT 285 Residential Bldg Internship

Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course offers students the opportunity to work for a residential builder in an actual job situation. The students can gain experience working with tools used in the industry and applying what they learned in the classroom and laboratory. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (BLDT 120 or BLDT 121). Departmental Approval is required.
- Placement Score: None.
- Course Note: Restriction: Building Construction Majors.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BUSN 118 Introduction to Business

Credit Hours: 3 / Billing Hours: 3

Introduction to principles, problems, and practices related to the world of business. Topics covered include: business management and organization, marketing, finance, economics, supply chain management, and international business. Application of these topics will be done through critical thinking of weekly application assignments, quizzes, and online discussion questions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).
- Course Note: Some sections of BUSN 118 allow concurrent enrollment in ENGL 098 and NCAS 105. See an academic advisor for sections that allow concurrent enrollment with ENGL 098 and NCAS 105.

BUSN 150 Legal Issues: Start Small Busn

Credit Hours: 2 / Billing Hours: 2

This course will introduce, but not limited to, the legal aspects of starting and operating a small business. Topics will include selecting the appropriate legal structure for setting up a business, complying with employment law, protecting intellectual property, avoiding legal disputes, and other legal aspects of purchasing and operating a business. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

BUSN 201 International Business

Credit Hours: 3 / Billing Hours: 3

Students will analyze the conditions in multiple countries and develop and evaluate present and future SWOT analysis for international business activities. Students will also analyze the relationship between international businesses and institutions and the political, economic, legal, financial management, human resource, and social policies of countries to develop strategies for successful decision-making. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: BUSN 118.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BUSN 250 Personal Finance

Credit Hours: 3 / Billing Hours: 3

Provides a broad survey of topics including budgeting, buying and leasing a car, renting, buying or selling a home, credit requirements, time value of money, insurance, and other personal financial planning topics. Not intended to be a financial planning course, but students will need basic knowledge of financial areas. A capstone group project will be used to apply the materials covered in this course. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 5.

BUSN 251 Understanding Investments

Credit Hours: 3 / Billing Hours: 3

Study of securities markets which will include an introduction to various types of investments such as mutual funds, real estate, money markets, stocks, bonds, and IRAs. Practice will be conducted to develop an understanding of terminology and application of concepts. Time Value of Money and some of the more prevalent theories, concepts, and skills of investing will be covered to aid in developing strategies for making sound investment decisions. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and [Math Level 5 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

BUSN 260 Starting a Business

Credit Hours: 4 / Billing Hours: 4

This course will introduce students to the world of entrepreneurs and their role in small business. There will be an emphasis on building a "business" which will include the elements of entrepreneurship, management, marketing, and finance. The Internet will be used as a resource and many real-life cases will be studied. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

BUSN 285 Business Admin Internship Credit Hours: 2 to 5 / Billing Hours: 2 to 5

The Business Admin Internship is an opportunity for students to work with Lansing area businesses as a team member to explore various careers within the industry. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in BUSN 118.
- Placement Score: Reading Level 5 and Writing Level 6.

CHDV 100 Foundations Early Childhood Ed Credit Hours: 3 / Billing Hours: 3

In this course students are introduced to the field of early childhood education. Students will explore the basic principles and practices of teaching young children. Topics include professionalism, creating effective learning environments, influences on children's learning, observation and assessment, and how children learn through play. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Recommended: Child Development and Early Education Major.
- Course Note: To complete an Associate Degree or Certificate in Child Development and Early Education in the shortest possible time, students must enroll in CHDV 100 and CHDV 111 in their first semester.

CHDV 101 Child Growth/Develop: 0-12 Yrs Credit Hours: 4 / Billing Hours: 4

This course examines the growth and development patterns of children through age twelve in physical, social, emotional, cognitive and language development. This includes the influences of environmental factors which impact development. Students acquire skills in observing and recording child behavior. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHDV 111 Child Guidance/Communication Credit Hours: 4 / Billing Hours: 4

This course includes field experience. Students learn interaction skills and environmental structures that foster social and emotional growth in children in early childhood education. Topics include positive guidance and discipline, effective communication with children, problem solving, and social skill development. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Course Note:
 - All students must register for 4 hours/week at an approved (by CHDV program) weekday daytime field experience site by [emailing](mailto:jordanh@lcc.edu) (jordanh@lcc.edu).
 - Students must pass an [ICHAT](#) criminal background check and a State of Michigan Central Registry Clearance prior to beginning field experience.
 - Students may be required to submit proof of vaccinations, including COVID, prior to beginning field experience. Students who have not submitted required documentation by the 2nd week of the semester may be dropped from the course.
 - In addition to regular class time, students are required to complete training online required for field experience. Information will be distributed via the course management site.
 - To complete an Associate Degree or Certificate in Child Development and Early Education in the shortest possible time, students must enroll in CHDV 111 in their first semester.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CHDV 122 Creativity and Play

Credit Hours: 1 / Billing Hours: 1

This course examines curriculum and activities which enhance the creative development of children in early childhood education. Students will explore the role of play and hands-on experiences in the development of creativity. Specific information on activities in the areas of art, music, movement, and dramatic play are shared. Information on physical and sensory development is also included. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

CHDV 123 Literacy and Play

Credit Hours: 1 / Billing Hours: 1

This course examines language and literacy development for children birth through age 5. Focus is on planning and supporting language development, emergent reading, and emergent writing through a play-based, developmentally appropriate curriculum. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

CHDV 124 Young Investigators: Math/Sci

Credit Hours: 1 / Billing Hours: 1

This course focuses on cognitive development in early childhood, highlighting problem-solving skills, math and science experiences, and explorations of the natural world. Through hands-on activities, students will investigate developmentally appropriate experiences for children in early childhood. Appropriate questioning techniques, environments, and ways to integrate exploration and problem-solving into daily routines and other aspects of the curriculum are explored. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHDV 129 Caring for Youngest Learners

Credit Hours: 2 / Billing Hours: 2

This course explores developmentally appropriate infant and toddler caregiving practices that support and nurture development and learning for children under the age of three. It is designed as an introductory course for those who care for and work with infants and toddlers. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

CHDV 132 Leadership Early Childhood Ed

Credit Hours: 2 / Billing Hours: 2

This course introduces students to effective leadership skills in early childhood education. Topics include leadership styles, communication skills, conflict resolution, interpersonal skills, and team-building in the workplace. Students will engage in self-reflection as they explore ethics, equity, and social justice in early childhood education. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

CHDV 135 Inclusion for Every Learner

Credit Hours: 3 / Billing Hours: 3

This course explores inclusive educational practices in early childhood settings serving children from birth to age 8. It includes benefits of inclusion, strategies for supporting diverse learners, partnering with families and other professionals, and advocating for inclusive practices. Focus is on including and promoting learning for children with disabilities and delays. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in CHDV 101.
- Placement Score: Reading Level 5 and Writing Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHDV 215 Infant Toddler Program Dev

Credit Hours: 4 / Billing Hours: 4

This course includes field experience. Students will explore the social-emotional and physical environments needed for quality early education and care for infants and toddlers. Focus includes developing positive interactions, building relationships, developmentally appropriate activities and materials, managing routines, and observation skills. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (CHDV 100 and CHDV 101 and CHDV 111).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - All students must register for 4 hours/week at an approved (by CHDV program) weekday daytime field experience site by [emailing](mailto:jordanh@lcc.edu) (jordanh@lcc.edu).
 - Students must pass an [ICHAT](#) criminal background check and a State of Michigan Central Registry Clearance prior to beginning field experience.
 - Students may be required to submit proof of vaccinations, including COVID, prior to beginning field experience. Students who have not submitted required documentation by the 2nd week of the semester may be dropped from the course.
 - In addition to regular class time, students are required to complete training online required for field experience. Information will be distributed via the course management site.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CHDV 220 Preschool Curriculum Approach Credit Hours: 4 / Billing Hours: 4

This course, with fieldwork, explores developmentally appropriate curriculum in various content areas in preschool-age early education settings. Students explore play-based learning and curriculum development that support children's individual growth and development. Other topics include learning environments and materials; observation, documentation and assessment; and planning and evaluating learning experiences. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CHDV 100 and CHDV 101 and CHDV 111).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - All students must register for 4 hours/week at an approved (by CHDV program) weekday daytime field experience site by [emailing](mailto:jordanh@lcc.edu) (jordanh@lcc.edu).
 - Students must pass an [ICHAT](#) criminal background check and a State of Michigan Central Registry Clearance prior to beginning field experience.
 - Students may be required to submit proof of vaccinations, including COVID, prior to beginning field experience. Students who have not submitted required documentation by the 2nd week of the semester may be dropped from the course.
 - In addition to regular class time, students may be required to complete training online required for field experience. Information will be distributed via the course management site.

CHDV 222 Caring for School-Age Children Credit Hours: 2 / Billing Hours: 2

This course examines developmentally appropriate programming for school-aged children in after-school, school-age, or before and after care settings. Course topics include professionalism, development and learning needs of the school-age child, environment and program structure, individual and group management, and planning appropriate learning experiences. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHDV 230 Early Childhood Program Admin Credit Hours: 3 / Billing Hours: 3

This course examines the administrative and leadership role of managing an early childhood education program, including state licensed child care homes, group homes and centers. The focus is on identifying effective leadership and management strategies, policies, and procedures required for the operation of a quality early childhood education program. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CHDV 111.
- Placement Score: Reading Level 5 and Writing Level 4.

CHDV 284 Early Childhood Practicum Credit Hours: 5 / Billing Hours: 5

This course includes field experience. Students will plan and implement developmentally appropriate learning experiences to support each and every child in an early childhood setting. An emphasis is placed on the development of professional skills for working with colleagues, children, and families. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CHDV 215 and CHDV 220).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - All students must register for 4 hours/week at an approved (by CHDV program) weekday daytime field experience site by [emailing](mailto:jordanh@lcc.edu) (jordanh@lcc.edu).
 - Students must pass an [ICHAT](#) criminal background check and a State of Michigan Central Registry Clearance prior to beginning field experience.
 - Students must submit proof of COVID vaccination and a TB Test prior to beginning field experience. Students who have not submitted proof of a completed ICHAT, Central Registry Clearance, negative TB Test, and COVID vaccination by the 2nd week of the semester may be dropped from the course.
 - In addition to regular class time, students may be required to complete training online required for field experience. Information will be distributed via the course management site.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHDV 297 Child Dev Directed/Indep Study Credit Hours: 0.25 to 4 / Billing Hours: 0.25 to 4

This course includes special research, directed study, or service-learning projects in child development. It requires at least 16 hours of independent work for each credit. A learning contract specifying objectives, activities, and outcomes is required. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.

CHEM 120 Gen Organic & Biological Chem Credit Hours: 4 / Billing Hours: 4

Introduces topics in general, organic, and biological chemistry that are used in health-related occupations. Included are scientific measurement, atomic structure and bonding, chemical equations and stoichiometry, solutions, acids, bases, buffers, gas behavior, nuclear radiation, organic functional groups, and the biologically important compounds: carbohydrates, lipids, and proteins. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

CHEM 125 Basic Chemistry Credit Hours: 4 / Billing Hours: 4

Intended for students who have not had high school chemistry or who require a refresher course. Measurement, problem solving, chemical formulas, states of matter, chemical equations, stoichiometry, atomic structure, chemical bonding, gas laws, solutions, and acids and bases are emphasized. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 120 or concurrently) or Math Level indicated below.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHEM 135 Chemistry in Society

Credit Hours: 4 / Billing Hours: 5

A general education course which presents chemistry to non-science majors who must function and make decisions in a society shaped by science and technology. Chemistry knowledge is introduced and applied on a need-to-know basis with respect to issues in society that have significant chemistry components. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

CHEM 151 General Chemistry Lecture I

Credit Hours: 4 / Billing Hours: 4

The first of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health professions, physical sciences, biological sciences, or engineering. Topics discussed include measurement, chemical formulas and equations, states of matter, aqueous solutions and reactions, stoichiometry, thermochemistry, atomic structure, bonding, chemical equilibrium, and acids and bases. (Offered Fall, Spring, Summer).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 6 or (MATH 120 concurrently)].
- Recommended: Minimum 2.0 in CHEM 125 or High School Chemistry and CHEM 161 concurrently.
- Course Note: This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHEM 152 General Chemistry Lecture II

Credit Hours: 3 / Billing Hours: 3

The second of two semester courses designed to provide an in-depth introduction to general chemistry for students who plan careers in the health professions, sciences, or engineering. Topics include aqueous equilibria, kinetics, nuclear chemistry, oxidation-reduction, transition metals, coordination chemistry, thermodynamics, electrochemistry, and molecular orbitals. (Offered Fall, Spring, Summer)

- Prerequisite Course: Reading Level 5 and Writing Level 6 and (Minimum 2.0 in CHEM 151 and [Math Level 7 or minimum 2.0 in MATH 126 or concurrently]) or (Minimum 3.5 in CHEM 151 and [Math Level 7 or minimum 2.0 in Math 120 or concurrently]).
- Course Note:
 - o 1). A scientific calculator capable of scientific notation and log functions is required for this course.
 - o 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

CHEM 161 General Chemistry Lab I

Credit Hours: 1 / Billing Hours: 3

Laboratory course designed to complement CHEM151. Stresses basic laboratory techniques, writing lab reports, and critical thinking exercises. Topics include density determination, thin layer chromatography, distillation, synthesis, empirical formulas, calorimetry, molecular geometry, gas laws, chemical equilibrium, pH, and water hardness. (Offered Fall, Spring, Summer).

- Prerequisite Course: Minimum 2.0 in CHEM 151 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 6 or minimum 2.0 in (MATH 120 or concurrently)].

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CHEM 162 General Chemistry Lab II

Credit Hours: 1 / Billing Hours: 3

Laboratory course designed to complement CHEM152. CHEM162 is the second semester general chemistry laboratory course. Stresses laboratory techniques and analyzing and reporting laboratory data. Topics include inorganic synthesis, chemical analysis, acid-base and solubility equilibria, oxidation-reduction reactions, and chemical kinetics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in [CHEM 152 (or concurrently) and CHEM 161] and [(MATH 121 or MATH 126) or concurrently or Math Level 7 as noted below].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 7.

CHEM 182 Introductory Organic Chemistry

Credit Hours: 3 / Billing Hours: 3

Chemistry 182 is a brief survey of organic chemistry course designed for non-chemistry majors. This course covers the following groups of organic compounds: alkenes, alkynes, alkanes, alkyl halides, alcohols, aldehydes, ketones, carboxylic acids and their derivatives, and amines. These organic compounds are discussed in terms of their structures, properties, isomers, nomenclature, preparations, and reactions. (Offered Fall, Spring, Summer).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Minimum 2.0 in CHEM 151.

CHEM 192 Intro Organic Chem Lab

Credit Hours: 1 / Billing Hours: 3

Designed for students in majors such as chemical processing, packaging, agriculture, and forestry who require only one credit of organic lab. It gives students an introduction to common techniques, equipment, and chemicals found in an organic laboratory. Particular attention is given to compounds studied in CHEM182. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CHEM 182 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: CHEM 151.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHEM 251 Organic Chemistry Lecture I

Credit Hours: 4 / Billing Hours: 4

CHEM 251 is the first lecture course of a two-semester sequence in organic chemistry for chemical engineering, chemical technology, chemistry, or pre-professional majors. Topics include structure and bonding, hybridization, nomenclature, stereochemistry, thermodynamics and kinetics of organic reactions, functional groups including reactions and mechanisms, and applications of infrared spectroscopy and nuclear magnetic resonance. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CHEM 151.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Minimum 2.0 in CHEM 152.

CHEM 252 Organic Chemistry Lecture II

Credit Hours: 4 / Billing Hours: 4

Continuation of CHEM 251. Topics include conjugated dienes, aromatic compounds, ethers, epoxides, aldehydes and ketones, carboxylic acids and their derivatives, amines, enolates, carbohydrates, and amino acids. In addition, applications of nuclear magnetic resonance, mass spectrometry, and infrared spectroscopy will be explored. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CHEM 251.
- Placement Score: Reading Level 5 and Writing Level 6.

CHEM 255 Biological Chemistry

Credit Hours: 4 / Billing Hours: 4

This course provides a foundation of the chemistry of life processes and will introduce organic functional groups, description of cell structure, including constituent macromolecules (carbohydrates, lipids, proteins, and nucleic acids), gene regulation, and intermediary metabolism. Designed for students pursuing health/allied health support careers such as nursing, physician assistant, and pharmacy programs. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CHEM 251 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHEM 262 Quantitative Analysis

Credit Hours: 3 / Billing Hours: 6

This course covers the theory and procedures of classical analytical techniques, including gravimetric analysis and titrimetric methods. Use of instruments such as spectrophotometers, pH meters, and others is also included. Designed for laboratory technician preparation, chemistry majors, or transfer students. (Offered Fall).

- Prerequisite Course: Minimum 2.0 in (CHEM 152 and CHEM 162).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 7.

CHEM 272 Organic Chemistry Laboratory

Credit Hours: 2 / Billing Hours: 6

This course is designed for students (in majors such as chemistry, pre-med, and pre-pharmacy) who require more than one credit of organic lab. It gives students experience with the chemicals, techniques, and equipment commonly employed in organic laboratories. Particular attention is given to compounds and reactions studied in CHEM251 and 252. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CHEM 251.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: CHEM 252 concurrently.

CHSE 100 Intro to Health Professions

Credit Hours: 3 / Billing Hours: 3

This course is an overview of healthcare careers. It explores the business of healthcare, safety, and healthcare costs. It includes the introduction to concepts of leadership and management, patient teaching, communications, time management, critical thinking, and career pathways. It includes learning drug dose calculations and medical terminology. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Course Note: In addition to regular class time, students are required to complete Bloodborne Pathogens and HIPAA training online. Information will be distributed via the course D2L site.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CHSE 108 Long-Term Care Nurse Aide

Credit Hours: 4 / Billing Hours: 6.5

This course will prepare an individual to be a nurse aide in a long-term care facility or home health care agency. This state-approved course will provide specific knowledge and skills required for a nurse aide to safely function in a long-term care setting. Upon successful completion, the student is eligible to take the Certified Nurse Assistant (CNA) Exam. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Course Note: This course provides training to prepare a student to work as a CNA in a nursing home or as a Home Health Aide.
- Required for clinical:
 - Completion of Bloodborne Pathogens online training; information given first day of class.
 - Negative 2-step TB (tuberculosis) tests within the last year.
 - Students must pass an [ICHAT](#) criminal background check (credit card required), results to be submitted on first day of course.
 - Proof of required immunizations.
 - Students MUST meet physical requirements for the duration of course as specified in course syllabus.
 - Students will be charged a \$20 fee for ACEMAPP required documentation/testing.

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2025-2026 Course Descriptions

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CHSE 109 LTC to AC Nurse Assistant/PCT Credit Hours: 3 / Billing Hours: 4.75

This course will prepare individuals for employment as a nurse aide/patient care technician (PCT) in hospital and rehabilitation settings who have previously completed a long-term care nurse aide training. This course will build on long-term care knowledge and skills, adding acute care and rehabilitation knowledge and skills required to deliver quality and safe basic patient care. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in CHSE 108 within 1 year or (current CNA Certification and Department Approval).
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: NCHE 102.
- Course Note: Students who have previously completed a long-term care nurse aide training may arrange for additional acute care training to prepare for employment as a nurse aide/patient care technician (PCT) in hospital and rehabilitation settings. Contact Sue Schneider or Mary Pacitto at 517-483-1410 for more information.
- Required:
 - o Completion of Bloodborne Pathogens and HIPAA online training; information given first day of class.
 - o Negative 2-step TB (tuberculosis) tests within the last year.
 - o Students must pass an [ICHAT](#) criminal background check prior to the beginning of clinicals; information given at first class session.
 - o Students must meet physical requirements for the duration of course as specified in the course syllabus.
 - o Students will be charged a \$20 fee for ACEMAPP required documentation/testing.

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2025-2026 Course Descriptions

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CHSE 114 Pathophysiology-Allied Health

Credit Hours: 3 / Billing Hours: 3

General principles of pathophysiology are discussed in order to develop a new way of thinking about disease processes. Concepts of specific disease processes and their effect on normal structure and function of the body are presented. Disease prevention concepts are also discussed. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in [BIOL 145 or (BIOL 201 and BIOL 202)].
- Placement Score: Reading Level 5 and Writing Level 4.

CHSE 117 Health Law and Ethics

Credit Hours: 2 / Billing Hours: 2

This course presents for discussion, legal and ethical issues arising from the organization and delivery of health care services. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CHSE 119 Community Health Career Topics Hours: 0.25 to 11

Credit Hours: 0.25 to 8 / Billing

This course offers students the opportunity to learn new community health career skills and knowledge. Specific up-to-date content will vary with each seminar and will be related to the community health careers. (Offered As Needed)

- Prerequisite Course: Determined by Section.
- Placement Score: Determined by Section.

CHSE 120 Medical Terminology

Credit Hours: 4 / Billing Hours: 4

Medical Terminology provides an in-depth knowledge of word building, use, pronunciations, spelling, term building, and the application of medical terms in relation to function, structure, and specific disease conditions. Emphasis is placed on medical terms from periodicals, textbooks, and medical care areas. This is a health careers foundational course. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CHSE 123 Medical Ins Billing/Coding I

Credit Hours: 4 / Billing Hours: 4

This course introduces insurance billing and diagnostic and procedure coding using the International Classification of Diseases (ICD-10-CM), Current Procedural Terminology (CPT), and National Healthcare Common Procedures Coding System (HCPCS) coding systems. The course also introduces the legal and compliance issues and their relationship to insurances. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in CHSE 120 or concurrently. Computer, keyboarding, and internet skills and experience required.
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: CHSE 131.

CHSE 124 Medical Ins Billing/Coding II

Credit Hours: 4 / Billing Hours: 4

The course provides comprehensive billing directions for BCBS (Blue Cross Blue Shield), Medicare, Medicaid, commercial insurances including HMOs, managed care, and worker's compensation. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in [(CHSE 120 and CHSE 123) and (CHSE 131 or concurrently)].
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: CHSE 125 and CHSE 127.

CHSE 125 Comp-Med Ins Billing/Coding

Credit Hours: 2 / Billing Hours: 2

This course, in combination with CHSE 124, introduces students to software used in medical office billing and coding. Students learn to record charges/payments/information; schedule appointments; ICD-10-CM (International Classification of Diseases, Tenth Revision, Clinical Modification), and CPT (Current Procedure Terminology) coding; produce claim forms and patient statements; and build office databases. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in [(CHSE 120 and CHSE 123) and (CHSE 124 or concurrently)].
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: CHSE 124 and CHSE 127.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHSE 127 Medical Ins Billing/Coding III

Credit Hours: 3 / Billing Hours: 3

The focus of this course is coding and billing for inpatient and outpatient hospital-based services. Students will be introduced to the ICD-10-CM, ICD-10-PCS, CPT, and HCPCS diagnostic and procedure codes. DRGs and their impact are discussed, as are recording charges using the UB-04 and CMS 1500 claim forms. Students will post payments, review and resubmit claims, and perform account receivable follow-up and collections. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in [CHSE 120 and CHSE 123 and (CHSE 124 or concurrently) and (CHSE 125 or concurrently)].
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: CHSE 124 and CHSE 125.

CHSE 131 Electronic Hlth Records Intro

Credit Hours: 2 / Billing Hours: 2

This course introduces students to the Electronic Health Record (EHR) and its impact on health career-related job responsibilities. Through hands-on experience, students gain an awareness of how EHRs are used in different healthcare settings and how they change the nature of the work performed by individuals throughout the health care field. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in CHSE 120 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: CHSE 123.
- Course Note: Non-Medical Insurance Billing and Coding students interested in this course may contact the Health and Human Services Division Office at 517-483-1410 to request approval to enroll without enrolling in CHSE 123.

CHSE 133 Med Bill/Code Cert Exam Prep

Credit Hours: 2 / Billing Hours: 2

This capstone course is designed to prepare Medical Insurance Billing and Coding students for the Certified Professional Coder (CPC) certification exam. It will review all areas of the certification exam's content, including CPT coding, ICD-10-CM coding, and HCPCS Level II coding. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in (CHSE 120 and CHSE 123 and CHSE 124 and CHSE 125 and CHSE 127 and CHSE 131).
- Placement Score: Reading Level 5 and Writing Level 4.

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Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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CHSE 136 EKG Technician

Credit Hours: 3.5 / Billing Hours: 4

This course teaches the theory and skills to perform process and explain electrocardiography and holter monitoring. Anatomy, physiology, pathology, and basic cardiac rhythm recognition is presented. Hands-on instruction and practice are included. Successful students may become certified through the American Certification Agency for Healthcare Professionals and/or the Cardiovascular Credentialing Institute. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in CHSE 120 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note:
 - o Required completion of Bloodborne Pathogens & HIPAA Training online; information given at first class session.
 - o Students will be charged a \$20 fee for ACEMAPP required documentation/testing.

CHSE 139 Community Health Career Topics Credit Hours: 0.25 to 8 / Billing Hours: 0 to 8

This course offers students the opportunity to learn new community health career skills and knowledge. Specific up-to-date content will vary with each seminar and will be related to the community health careers. (Offered As Needed)

- Prerequisite Course: Determined by Section.
- Placement Score: Determined by Section.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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CHSE 143 Phlebotomy Technician

Credit Hours: 2 / Billing Hours: 3

This course is designed to prepare a person to function as a phlebotomy technician. It will provide the knowledge and skill necessary to safely and skillfully ensure patient identification, obtain a blood sample from a patient, and properly handle specimens after collection. The course includes lecture and campus laboratory. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Course Note: Required:
 - o Completion of Bloodborne Pathogens Training online; information will be distributed via the course D2L site and/or in class.
 - o Students will be charged a \$50 fee for ACEMAPP required documentation/testing. The ACEMAPP fee covers both CHSE 143 and CHSE 144 if taken within the same calendar year.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHSE 144 Phlebotomy Externship

Credit Hours: 2 / Billing Hours: 2

This course is designed to enable the student to apply procedures learned in CHSE 143, Phlebotomy Technician, to a clinical laboratory setting. While at the worksite (clinical laboratory), students will be under the supervision of a preceptor. The course includes a practical review of techniques and worksite experience. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in CHSE 143 within 1 year. Program Approval required.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Students will be charged a \$50 fee for ACEMAPP required documentation.
- Required:
 - Minimum age of 18 required to enroll in this course.
 - Completion of Bloodborne Pathogens and HIPAA training online; information given at orientation.
 - Negative 2-step TB (tuberculosis) skin test within the last year.
 - Students must pass an [ICHAT](#) criminal background check prior to worksite placement; information given at orientation.
 - Contact the CHSE Externship Coordinator at 517-483-1410 to obtain program approval to enroll in this course.

CHSE 150 CHSE Directed/Indep Study

Credit Hours: 0.25 to 4 / Billing Hours: 0.25 to 7

This course is designed to update, enhance, or remediate knowledge, skills, and competencies for the returning Community Health Services Education student through evaluation of previous learning, self-study, lecture/lab sessions, and/or scheduling into a supervised clinical component. A learning contract specifying objectives, activities and outcomes is required. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CHSE 151 Patient Care Technician

Credit Hours: 6 / Billing Hours: 9.25

This course prepares the Certified Nurse Assistant (CNA) to be a Patient Care Technician (PCT) in a hospital or other acute care setting, adding to a student's previous training in a long-term care setting. Specific knowledge, skills, and training required to deliver safe basic patient care are covered (i.e., personal needs, phlebotomy, EKG). Successful completion of this course provides eligibility to take the National Certified Patient Care Technician (NCPCT) exam. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in (CHSE 108 within one year) or (current CNA Certification and Program Approval).
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Corequisite Course: NCHE 102.
- Course Note: Provides training for national PCT certification and hospital. Students will be charged a \$50 fee for ACEMAPP required documentation.
- Required:
 - o Minimum age of 18 required to enroll in this course.
 - o Completion of Bloodborne Pathogens, HIPAA & Sparrow online training; information given first day of class.
 - o Negative 2-step TB (tuberculosis) tests within the last year.
 - o Students must pass an [ICHAT](#) criminal background check (credit card required). Results of ICHAT to be submitted on first day of course.
 - o Proof of required immunizations.
 - o Students must meet physical requirements for the duration of course as specified in course syllabus.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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CHSE 235 Pharmacy Technician

Credit Hours: 4 / Billing Hours: 4

This course is designed to introduce students to the skills necessary for a pharmacy technician position in a hospital or retail pharmacy. Students will be prepared to function with knowledge and accuracy in dispensing and control of drugs in either setting. Successful completion prepares students for the technical portion of the Pharmacy Technician Certification Board National Certification Exam. Review of certification and exam requirements, along with additional prerequisites, will be needed prior to taking the exam. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Course Note: Minimum age of 18 required to enroll in this course.

CHSE 236 Pharmacy Technician Externship

Credit Hours: 2 / Billing Hours: 2

This externship experience introduces the student to the skills necessary to perform the function of a pharmacy technician relative to prescription review, an introduction to prescription software, label preparation, and product selection during a hands-on activity in a live pharmacy environment. Students will be under preceptor supervision while at a hospital or community pharmacy. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in CHSE 235 within 1 year. Program Approval required.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Course Note: Required:
 - o Minimum age of 18 required to enroll in this course.
 - o Completion of Bloodborne Pathogens and HIPAA Training online; information given at orientation.
 - o Negative 2-step TB (tuberculosis) skin test within the last year.
 - o Students must pass an [ICHAT](#) criminal background check (credit card required) prior to worksite placement; information given at orientation.
 - o Students will be charged a \$50 fee for ACEMAPP required documentation. Contact the CHSE Externship Coordinator at 517-483-1410 to obtain program approval to enroll in this course.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



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CITA 110 Intro to Microsoft Office

Credit Hours: 3 / Billing Hours: 3

This course provides an introduction to MS Office. It is designed to develop basic operational proficiency while using Microsoft Office (Word, Excel, Access, and PowerPoint). Students learn how to use word processing, spreadsheet, database, and presentation software. Topics include creating business letters, business memos, elementary spreadsheets, elementary database structures, and slide presentations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - This course requires the use of a PC computer running Windows 11, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Materials section) and have a MyLa IT account. Mac computers are not fully compatible and are not recommended. Equipment and software is provided for students that wish to complete assignments at the Main or West Campuses computer labs. Microsoft 365 is available to LCC students at no cost using links from the College website but may not have the full features needed to complete the work.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



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CITA 115 Microsoft PowerPoint

Credit Hours: 3 / Billing Hours: 3

This course introduces students to the fundamental features of Microsoft PowerPoint. Topics include creating presentations using themes, graphic elements, interactive elements and animation effects. Students will prepare presentations for distribution in a variety of formats. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - o Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - o This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Material section) and a MyLab account. Mac computers are not fully compatible. The LCC Library may offer laptops for check-out during the semester. Microsoft 365 is available to LCC students at no cost using links from the College website but may not have the full features needed to complete the work.
 - o ****MyLabIT:** You only need to purchase one MyLabIT Access Code from the BNC bookstore. That access code can be used for CITA 110 Intro to Microsoft Office, CITA 115 PowerPoint, CITA 119 Microsoft Word, CITA 126 Excel, CITA133 Access Database, CITA 219 Advanced Microsoft Word and CITA226 Advanced Excel. An e-book that covers all the classes listed above comes with MyLabIT from the BNC bookstore.

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CITA 119 Microsoft Word

Credit Hours: 3 / Billing Hours: 3

This course introduces students to the fundamental features of Microsoft Word. Major topics include formatting text; creating footnotes, lists, tables, columns, newsletters and charts; inserting graphics; and exposure to mail merge. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Materials Section) and a MyLabIT for account. Mac computers are not fully compatible. Equipment and software is provided for students that wish to complete assignments at the Main or West Campus computer labs.. The LCC Library may offer laptops for check-out during the semester. Microsoft 365 is available to LCC students at no cost using links from the College website but may not have the full features needed to complete the work.
 - ****MyLabIT:** You only need to purchase one MyLabIT Access Code from the BNC bookstore. That Access Code can be used for CITA110 Intro to Microsoft Office, CITA115 PowerPoint, CITA119 Microsoft Word, CITA126 Microsoft Excel, CITA133 Microsoft Access Database, CITA219 Advanced Microsoft Word, and CITA226 Microsoft Excel -Advanced. An e-book that covers all the classes listed above also comes with MyLabIT from the BNC bookstore.

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CITA 126 Microsoft Excel

Credit Hours: 3 / Billing Hours: 3

This course provides introductory through intermediate level training in Excel spreadsheets. Instruction includes creating worksheets and charts, using formulas and functions, creating Subtotal and PivotTable reports, and working with multiple worksheets. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - o Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - o This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office and a MyLabIT account. Mac computers may not fully be compatible. Equipment and software is provided for students that wish to complete assignments at the Main or West Campus computer Labs. Microsoft 365 is available to LCC students at no cost using links from the College website but may not have the full features to complete the work.
 - o ****MyLabIT:** You only need to purchase one MyLabIT Access Code from the BNC bookstore. That Access Code can be used for CITA110 Intro to Microsoft Office, CITA115 PowerPoint, CITA119 Microsoft Word, CITA126 Microsoft Excel, CITA133 Microsoft Access Database, CITA219 Advanced Microsoft Word, and CITA226 Microsoft Excel -Advanced. An e-book that covers all the classes listed above also comes with MyLabIT from the BNC bookstore.

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CITA 133 Microsoft Access Database

Credit Hours: 3 / Billing Hours: 3

This course provides introductory through intermediate level training in the creation of database management systems using Microsoft Access. Instruction includes an introduction to Microsoft Access, database creation and maintenance, database querying, the generation of custom forms and reports, and integration of Access with other programs. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Materials section) and have a MyLabIT account. Mac and Chromebook computers are not fully compatible and are not recommended. Equipment and software is provided for students that wish to complete assignments at the Main or West Campus computer labs. Office 365 is available to LCC students at no cost using links from the College website but may not have the full features to complete the work. **MyLabIT: You only need to purchase one MyLabIT Access Code from the BNC bookstore. That Access Code can be used for CITA110 Intro to Microsoft Office, CITA115 PowerPoint, CITA119 Microsoft Word, CITA126 Microsoft Excel, CITA133 Microsoft Access Database, CITA219 Advanced Microsoft Word, and CITA226 Microsoft Excel -Advanced. An e-book that covers all the classes listed above also comes with MyLabIT from the BNC bookstore.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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CITA 140 Microsoft Outlook

Credit Hours: 3 / Billing Hours: 3

Students will use Outlook to manage typical business office communication needs. The course includes sending and organizing email, creating contacts, managing calendars and scheduling meetings. Students organize and archive data, and use email filters. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Materials section) and a SAM account. Mac computers are not fully compatible. Equipment and software is provided for students that wish to complete assignments at the Main or West Campus computer labs. The LCC Library may offer laptops for check-out during the semester. Office 365 is available to LCC students at no cost using links from the College website but may not have the full features to complete the work.

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2025-2026 Course Descriptions

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CITA 219 Advanced Microsoft Word

Credit Hours: 3 / Billing Hours: 3

This course provides advanced level training using Microsoft Word. Topics include advanced table features, mail merge, creating forms, working with master and subdocuments, embedding and linking objects, and macros. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CITA 119.
- Placement Score: Reading Level 4.
- Recommended: Windows and keyboarding experience.
- Course Note:
 - o Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - o This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office and a MyLabIT account. Mac computers and Chromebooks are not fully compatible and are not recommended. Equipment and software is provided for students that wish to complete assignments at Main or West Campus computer labs. Office 365 is available to LCC students at no cost using links from the College website but may not have the full features needed to complete the work.
 - o ****MyLabIT:** You only need to purchase one MyLabIT Access Code from the BNC bookstore. That Access Code can be used for CITA110 Intro to Microsoft Office, CITA115 PowerPoint, CITA119 Microsoft Word, CITA126 Microsoft Excel, CITA133 Microsoft Access Database, CITA219 Advanced Microsoft Word, and CITA226 Microsoft Excel -Advanced. An e-book that covers all the classes listed above also comes with MyLabIT from the BNC bookstore.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

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CITA 226 Microsoft Excel-Advanced

Credit Hours: 3 / Billing Hours: 3

This course introduces more complex functions and Excel tools used in financial, and statistical analysis. Additional topics include data imports, web queries, share and merge workbooks. Students customize Excel toolbars and automate tasks with macros. Data validation and auditing tools are introduced. This course, together with CITA126, helps prepare for the Excel Microsoft Office Specialist (MOS) exams. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in CITA 126.
- Placement Score: Reading Level 5.
- Course Note:
 - o Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - o This course requires the use of a PC computer running Windows 11 or higher, 4GB Ram, High Speed Internet Connection - 2 Mbit or higher, current version of Microsoft Office (see Materials section) and a MyLabIT account. Mac computers are not fully compatible and are not recommended. Equipment and software is provided for students that wish to complete assignments at Main or West Campus computer labs. Office 365 is available to LCC students at no cost using links from the College website but may not have the full features needed to complete the work.
 - o ****MyLabIT:** You only need to purchase one MyLabIT Access Code from the BNC bookstore. That Access Code can be used for CITA110 Intro to Microsoft Office, CITA115 PowerPoint, CITA119 Microsoft Word, CITA126 Microsoft Excel, CITA133 Microsoft Access Database, CITA219 Advanced Microsoft Word, and CITA226 Microsoft Excel -Advanced. An e-book that covers all the classes listed above also comes with MyLabIT from the BNC bookstore.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

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CITC 282 Ethical Hacking

Credit Hours: 3 / Billing Hours: 3

This course provides an in-depth understanding of hacking phases, various attack vectors, and preventative countermeasures. Content will include how hackers think and act maliciously, allowing students to be better positioned to set up security infrastructure and defend against future attacks. This course will prepare students for the CompTIA Pentest+ certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITN 280.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CITC 285 System Defense

Credit Hours: 3 / Billing Hours: 3

This course will provide students with targeted content and integrated hands-on skills for applying behavioral analytics to networks and devices to prevent, detect, and combat cybersecurity threats through continuous security monitoring. The course will prepare students for the CompTIA CySA+ certification exam. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITN 280.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CITC 287 Cybersecurity Incident Respons

Credit Hours: 3 / Billing Hours: 3

The course addresses various underlying principles and techniques for detecting and responding to current and emerging computer security threats. Content will include how to handle various types of incidents, risk assessment methodologies, and various laws and policy related to incident handling. This will prepare students for ECIH Industry Certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITN 280.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITC 290 Cybersecurity Risk Management Credit Hours: 4 / Billing Hours: 4

This course covers the technical knowledge and skills required to architect, engineer, integrate, and implement secure solutions across complex environments to support a resilient enterprise while considering the impact of governance, risk, and compliance requirements. The course will prepare students for the (ISC)Â² CISSP certification exam (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITN 280.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CITD 120 SQL Concepts Credit Hours: 3 / Billing Hours: 3

This course introduces the student to Structured Query Language (SQL). Topics include relational database concepts, queries, special operators, and the join operation. Students will gain experience in ANSI standard SQL. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Recommended: CITF 108 or CIP 110.

CITD 250 Database Concepts Credit Hours: 3 / Billing Hours: 3

Students learn the functions of a database management system. The relational model and SQL are used. Normalization and database design are covered. The CODASYL model is discussed and emerging trends are studied. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [CITF 110 and (CIP 110 or CIP 150)].
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

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CITF 110 Intro Computer Info Systems

Credit Hours: 3 / Billing Hours: 3

This course provides an introduction to computers, their role in managing business information systems, their influence on society, and their use in personal productivity. It includes a hands-on introduction to major microcomputer tools: word processors, spreadsheets, presentation software, and database management systems. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Corequisite Course:
- Course Note:
 - Students must be able to use web browsers and online learning tools including drop boxes, discussion boards, and e-mail. They must also have Windows file management skills, including the ability to upload and download files, make folders, move and zip files.
 - This course requires the use of a PC computer running Windows 10 or higher, 4GB Ram, High Speed Internet Connection and a full version of Microsoft Office less than three years old. Students using Mac computers will need to log on to LCC virtualized PC computers to complete certain assignments. Equipment and software is provided for students that wish to complete assignments at the Main or West Campus computer labs. Office 365 is available to LCC students at no cost using links from the College website.

CITF 120 Operating Systems Concepts

Credit Hours: 3 / Billing Hours: 3

The course covers what operating systems are, why they exist, what they do, and how they interface with the operators and programmers. Main memory management and processor scheduling are studied along with device and file management. Case studies of current operating systems are studied. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.
- Recommended: CITF 110 and (CITP 110 or CITP 150).

2025-2026 Course Descriptions

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CITF 140 Information Technology Ethics Credit Hours: 3 / Billing Hours: 3

This course explores the ethical dilemmas that confront IT professionals. Ethical codes of various organizations will be studied. Students will learn to apply critical thinking skills to the discussion of ethical questions. Topics will include privacy, intellectual property rights, software development, network administration, and the use of the Internet. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

CITF 240 IT Project Management Credit Hours: 3 / Billing Hours: 3

This course provides a comprehensive introduction to IT Project Management and covers the basic concepts of project scope, planning, execution, and closure. Students will develop project plans; track to those plans; manage ambiguity and risks; and make changes to the plan. This course covers the objectives for CompTIA Project+ certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITF 110 or CITS 125).
- Placement Score: Reading Level 4 and Writing Level 4.

CITF 260 Systems Analysis and Design Credit Hours: 4 / Billing Hours: 4

This course presents concepts and techniques used in the development of computer business application systems. The traditional approach for systems development is presented and compared to the approach used in a 4th Generation Environment. Techniques for structured analysis and project management techniques will be used. Recent developments in analysis, including Computer Assisted Software Engineering (CASE) and Object-Oriented Analysis will be introduced. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [CITF 110 and (CITP 110 or CITP 150)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

2025-2026 Course Descriptions

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CITI 100 AI Foundations

Credit Hours: 3 / Billing Hours: 3

This course introduces the basic concepts and applications of artificial intelligence (AI). Students study the common domains of AI, tools and techniques leveraged to create learning models, project cycles, classifications of data, and the relevant ethical considerations. (Offered Fall and Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITI 120 Data Analysis with Python

Credit Hours: 3 / Billing Hours: 3

This course introduces data analysis with Python. Students learn to use Python libraries, frameworks, and tools required for analysis. Students also explore how to mine, clean, and prepare data; create visualizations, reports, and dashboards; and handle large datasets efficiently while adhering to governing and ethical standards. This course aligns with the CompTIA Data+ certification. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CITP 110 and STAT 170 and CITD 120) or concurrently.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITI 140 Intro to Machine Learning

Credit Hours: 3 / Billing Hours: 3

This course introduces the basic concepts and applications of machine learning (ML), an applied branch of artificial intelligence (AI). Students study the foundations of ML, tools and techniques leveraged to create learning models, project cycles, classifications of data, and relevant ethical considerations. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CITI 120.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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CITI 210 Natural Language Processing Credit Hours: 3 / Billing Hours: 3

This course explores the applications of natural language processing (NLP), a branch of artificial intelligence (AI). Students study foundations of NLP, tools and techniques leveraged to create language models, data preparation, and the relevant ethical considerations throughout the design and creation of language recognition applications. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in CITI 140.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITI 220 Computer Vision Credit Hours: 3 / Billing Hours: 3

This course explores the applications of computer vision (CV), a branch of artificial intelligence (AI). Students study the foundations of CV, tools and techniques leveraged to create vision models, data preparation, and the relevant ethical considerations throughout the design and creation of computer vision applications. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CITI 140.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITN 115 IoT & Automation Fundamentals Credit Hours: 5 / Billing Hours: 6

This course provides an introduction to home technology integration with emphasis on the following: computer networking, audio/video, home security, industry standards, home lighting control, HVAC management, water system controls, home access controls and automated home features, low voltage wiring, and user interfaces. All topics are covered in lecture and lab experiments. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

2025-2026 Course Descriptions

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CITN 120 Networking Concepts

Credit Hours: 3 / Billing Hours: 3

The student in this course learns the fundamentals of Local Area Networks (LANs) and Wide Area Networking (WAN). Communication standards such as the OSI 7 layer model and the Internet are introduced. Business and consumer use of these technologies will be discussed. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Recommended: CITF 110.

CITN 220 Introduction to Networks

Credit Hours: 3 / Billing Hours: 3

This course introduces architecture, structure, functions, components, and models of computer networks, including the Internet. Students examine networking layers, their roles and services, and learn to build and troubleshoot basic LANs. This course follows the objectives for the first course in the Cisco Networking Academy CCNA Routing and Switching curriculum. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITS 125 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course is the first in the four-course Cisco Networking Academy sequence preparing students to test for the CCNA-RS certification. It is an accelerated 8-week course in the first half-semester. Students should plan for the extra time required for an accelerated course. We strongly recommend that students enroll in this course at the same time as CITN 225, which takes place during the second half of the semester.

CITN 222 Wireless Networking & Security

Credit Hours: 3 / Billing Hours: 3

This course provides the student with the ability to understand the fundamentals of RF networks and describe the functionality of WLAN components. Students are provided with the skills to install, configure, secure, and troubleshoot WLAN hardware peripherals and protocols. This course prepares the student for the Certified Wireless Network Technician exam. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITS 125.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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CITN 225 Switch Route Wireless Essentials Credit Hours: 3 / Billing Hours: 3

This course describes the architecture, components, and operations of devices in a small network. Students learn how to configure a router and a switch for basic functionality. This course is the second course in the Cisco Networking Academy CCNA Routing and Switching curriculum, and can lead to Cisco CCENT Certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITN 220 within 2 years or concurrently).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course is the second in the four-course Cisco Networking Academy sequence preparing students to test for the CCNA-RS certification. It is an accelerated 8-week course in the second half-semester. Students should plan for the extra time required for an accelerated course. We strongly recommend that students take this course immediately following CITN 220, enrolling in both courses in the same semester.

CITN 230 Linux Operating System Credit Hours: 3 / Billing Hours: 3

The student in this course learns to install, use and administer a Linux operating system, including user account management, network operation, and application software for Linux. Practical hands-on training is used throughout. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITF 120 or CITS 125).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 3.

CITN 240 Ent Networking Sec Automation Credit Hours: 3 / Billing Hours: 3

This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. This course is the third in the Cisco Networking Academy CCNA Routing and Switching curriculum. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITN 225 within 2 years.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Course Note: This course is the third in the four-course Cisco Networking Academy sequence preparing students to test for the CCNA-RS certification. It is an accelerated 8-week course in the first half-semester. Students should plan for the extra time required for an accelerated course. We strongly recommend that students enroll in this course at the same time as CITN 245, which takes place during the second half of the semester.



2025-2026 Course Descriptions

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CITN 250 Microsoft Network Server

Credit Hours: 3 / Billing Hours: 3

The student in this course learns installation, security, and best administration techniques for Microsoft Windows Servers. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITF 120 or CITS 125).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 3.

CITN 280 IT Security Foundations

Credit Hours: 3 / Billing Hours: 3

This course provides a comprehensive introduction to IT security, covering basic concepts of data integrity, confidentiality, and availability, and focusing on relevant threats and countermeasures. Students will be prepared to evaluate Information Security needs of organizations and to develop policies addressing these needs. This course covers the objectives identified for CompTIA Security+ certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITN 220 or CITS 225) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 3.
- Corequisite Course:
- Recommended: CITN 230 or CITN 250.

CITO 100 Cloud Foundations with AWS

Credit Hours: 3 / Billing Hours: 3

This course introduces cloud computing on the Amazon Web Services (AWS) platform. Students study cloud computing principles, core services, cost models, security practices, migration options, and general management. This course aligns with the objectives for the AWS Certified Cloud Practitioner certification. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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CITO 120 Cloud Architecting with AWS Credit Hours: 3 / Billing Hours: 3

This course introduces cloud architecting on the Amazon Web Services (AWS) platform. Students study and design architectures for workloads that must prioritize combinations of fault tolerance, availability, tiered applications, decoupling, elasticity, scalability, costs, and security. This course aligns with the objectives for the AWS Certified Solutions Architect Associate certification. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITP 110 and [CITS 125 or CITF 120]).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITO 140 Cloud Development Ops with AWS Credit Hours: 3 / Billing Hours: 3

This course introduces cloud development operations on the Amazon Web Service (AWS) platform. Students develop Cloud applications for workloads that must prioritize combinations of fault tolerance, availability, tiered applications, decoupling, elasticity, scalability, costs, and security. This course aligns with the objectives for the AWS Certified Developer - Associate certification. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (CITP 110 and [CITS 125 or CITF 120]).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITO 240 Machine Learning with AWS Credit Hours: 3 / Billing Hours: 3

This course introduces machine learning (ML), which is a branch of artificial intelligence (AI), on the Amazon Web Services (AWS) platform. Students study how to design, build, deploy, optimize, tune, train, and maintain ML solutions within cloud environments. This course aligns with the objectives for the AWS Certified Machine Learning - Specialty. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CITO 120 and CITO 140 and CITI 140).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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CITP 110 Intro to Programming - Python

Credit Hours: 4 / Billing Hours: 4

Students are introduced to the fundamental techniques for understanding, designing, developing, and testing object-oriented programs through the use of scientific method. Topics include: structured program design; basic programming control structures; algorithm and logic design; functions; classes; methods; random number generators; user interface design; and working with data in files. Students are required to complete computer-based assignments using the Python programming language. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students with little or no experience in programming are recommended to take a face-to-face version of this class rather than an online section. For further questions about the course requirements, please contact the Program office at 517-267-6406.

CITP 130 Intro to Mobile App Devel

Credit Hours: 3 / Billing Hours: 3

The course will introduce students to the various platforms and application (apps) in use on mobile devices. Platforms will include Apple iOS, Google Android OS, and others as appropriate. Students will create applications (apps), test, and debug for each platform using specialized development environments. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (CITP 110 or CPSC 101 or CPSC 230) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CITP 140 Software Testing

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to software testing and quality assurance. The fundamentals of software testing are covered including test planning, test case design, the types of testing, such as performance and regression. Also covered are test management, automation, and how people and organizational issues affect testing. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in ([CITP 110 or CPSC 101] or concurrently).
- Placement Score: Reading Level 5 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

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CITP 150 Intro to VB.NET Programming Credit Hours: 4 / Billing Hours: 4

This course introduces students to programming concepts through the use of the Visual Basic.NET programming environment. Students learn to develop business applications by designing and creating a user interface and writing the necessary procedures. Students also learn and use logic development tools and object oriented programming terminology and techniques. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITP 110 or CPSC 101 or CPSC 230).
- Placement Score: Reading Level 5 and Math Level 4.

CITP 180 Intro to C#.NET Programming Credit Hours: 4 / Billing Hours: 4

Students will use Microsoft Visual Studio .NET to become familiar with the C# .NET programming language by designing, implementing, and testing programming projects. Topics include creating and using methods and classes; inheritance; exception handling, and using controls. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITP 110 or CPSC 101 or CPSC 230).
- Placement Score: Reading Level 5 and Math Level 4.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

CITP 190 Intro to Programming in JAVA Credit Hours: 4 / Billing Hours: 4

This course introduces students to basic programming concepts using the Java Programming language. It introduces object-oriented programming methodology and features provided by the Java language. During the course, students will review sound programming practices and learn accepted Java programming procedures. Students will create and modify simple Java applications and applets. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITP 110 or CPSC 101 or CPSC 230).
- Placement Score: Reading Level 5 and Math Level 4.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITP 220 Game Design & Development

Credit Hours: 2 / Billing Hours: 4

This course provides a hands-on introduction to special research and projects utilizing Web development and programming skills. Student may enroll to update or enhance knowledge, mastery, and competencies. Specific content may vary with each offering and will be related to gaming, simulation, and software development industries. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CITP 180.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Recommended: CITP 150.

CITP 230 Mobile App Devel for Android

Credit Hours: 4 / Billing Hours: 4

This course teaches students to develop applications (Apps) for mobile devices using either a Windows or an Apple computer. Programming language (SDK Software Development Kit) taught will feature Java for Android Development. Students will create several mobile applications via a popular IDE (Integrated Development Environment) to run on Android devices. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITP 130.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CITP 235 Mobile App Devel for Apple

Credit Hours: 4 / Billing Hours: 4

This course teaches students to develop applications (Apps) for mobile devices using an Apple computer. Programming language (SDK Software Development Kit) taught will feature C/Objective-C and/or Swift for iOS Development. Students will create several mobile applications via Apple's Xcode (IDE) to run on Apple mobile devices. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITP 130.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITP 240 Advanced Software Testing Credit Hours: 3 / Billing Hours: 3

This course is the second in a sequence of software testing classes. It covers in more detail testing procedures, test management, and testing techniques. Also included are test tools and automation as well as people skills and team composition for a successful quality assurance team. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CITP 140.
- Placement Score: Reading Level 5 and Math Level 4.

CITP 280 Advanced C#.NET Programming Credit Hours: 4 / Billing Hours: 4

Students will use Microsoft Visual Studio .NET to become familiar with advanced C#.NET programming concepts including database and web programming. Topics include using threads, database interaction using ADO.Net, interfacing to Crystal Reports, and creating web applications. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITP 180 within the last two years.
- Placement Score: Reading Level 5 and Math Level 4.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

CITP 290 Adv JAVA Programming for Busn Credit Hours: 4 / Billing Hours: 4

This course introduces advanced Java Programming concepts. Students will use sound programming practices and accepted Java programming procedures. Students will create and modify computer programs as might be encountered in creating Java applications for industry. Topics covered in this course provide a strong preparation for the Sun Certified Programmer Certification. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in [CITP 190 and (CITW 160 or concurrently)] within the last two years.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITP 295 Programming Internship Credit Hours: 3 / Billing Hours: 3

This internship provides the student with on-the-job experience as a computer programmer. The student is expected to write or maintain programs, test programs, create documentation, and perform analysis. It is designed to be the culmination of the Computer Programmer/Analyst Associate Degree and as final preparation for entering the job market. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

CITS 110 Helpdesk Support Specialist Credit Hours: 3 / Billing Hours: 3

This course will teach self-management and soft-skills to provide helpdesk customer service and support including processes and associated technologies in a technical or non-technical environment. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110)].
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

CITS 125 Computer Support: A+ Cert Prep Credit Hours: 6 / Billing Hours: 6

This course provides students with the skills to diagnose and correct problems that computer users encounter. The student receives practical hands-on experience in installing, maintaining, and troubleshooting computer hardware and software while developing their communication skills and professionalism. This course includes the current CompTIA A+ certification exams that are required to receive CompTIA A+ certification. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students will receive vouchers during the class for the CompTia A+ Certification exams.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITS 170 Basic Electronic for PC Repair Credit Hours: 6 / Billing Hours: 7

This course begins with basic electricity concepts and discusses basic electricity, basic electronics, electric circuits, diodes, transistors, digital devices, and digital circuits. Course work includes lab exercises each week. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Corequisite Course:
- Recommended: Math Level 5.

CITS 172 Intro to Basic Electronics Credit Hours: 4 / Billing Hours: 4.5

This course equips students with foundational knowledge and experience in low-voltage electronic circuits. Students study electricity, properties of components, and the functionality of microcontrollers, actuators, and sensors. By the end of the course, students will possess the skills to design simple yet innovative solutions integrating a broad range of electronic components. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 4, Writing Level 2, and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in NCMA 106.

CITS 225 Networking for PC Technicians Credit Hours: 3 / Billing Hours: 3

This course provides students with the practical skills to setup, maintain, and manage Local Area Networks. Students will receive a comprehensive introduction to networking standards and protocols, networking hardware and software, transmission basics, Internet connectivity, wireless networking, network security, and convergence technologies. This course includes the CompTIA Network+ certification exam. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITF 120 or CITS 125.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 3.
- Course Note: Students will receive vouchers during the class for the CompTia Network+ Certification exams.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITS 230 Computer Virtualization

Credit Hours: 3 / Billing Hours: 3

This course presents the concepts and techniques used in computer virtualization. The course describes virtualization, hypervisors and virtual machines. Hands-on activities will cover the installation and management of virtual machines in a variety of computing environments. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in CITS 125.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 3.
- Recommended: Minimum 2.0 in CITS 225 or CITN 230.

CITS 285 IT Professional Internship

Credit Hours: 2 to 3 / Billing Hours: 2 to 3

Designed to be the culmination of information systems students' associate degree program. It is intended to give the student live work experiences as a specialist in computer systems or support. It is to be taken at the end of the student's curriculum as final preparation for entering the job market. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

CITW 150 Internet Literacy

Credit Hours: 3 / Billing Hours: 3

This course teaches hands-on skills and builds knowledge for Internet professionals. It is designed to explore the potential uses of the Internet for business and communication including the use of email, search engines, discussion boards, and other Internet applications including web page development. This course also discusses the rapidly changing world of the Internet. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Familiarity with Windows.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITW 160 Web Development HTML & CSS Credit Hours: 3 / Billing Hours: 3

This course explores techniques of web page construction using HTML and CSS languages. Students will construct individual web pages using HTML to contain graphics, text, and web forms with presentation controlled by CSS style sheets. Students will demonstrate their understanding and application of the concepts introduced during the semester by creating an individual website project. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: An online course may require students to travel to an exam site for proctored exams. You may also request to test at an approved proctored location (additional fees may apply). For more information on proctored test sites, please visit the Testing Services website.

CITW 165 Web Development JavaScript Credit Hours: 3 / Billing Hours: 3

This course explores advanced techniques of web page and website construction using HTML, HTML5, CSS, CSS3, and JavaScript for website behavior. Students will create several W3C compliant web pages that will respond to user input (client-side) via browsers using these technologies. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CITW 160.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Math Level 4.

CITW 175 Web Site Management Credit Hours: 3 / Billing Hours: 3

This course presents a comprehensive introduction to web site planning, promotion, security, and legal issues associated with web site management. Students explore web-based communication tools, domain names, web site hosting, shopping cart software and manage an individual web site to demonstrate concepts presented throughout the semester. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITW 160 or ARTS 173) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CITW 180 Web Development ASP.NET

Credit Hours: 4 / Billing Hours: 4

This course provides instruction in building web sites using Microsoft ASP.NET. Students create dynamic, flexible, and interactive web pages that interact with a database. Students explore server controls, validation controls, security issues, user authentication, and manage an individual web site to demonstrate concepts presented throughout the semester. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [CITW 160 and (CITP 150 or CITP 180)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CITW 185 Web Development PHP & MySQL

Credit Hours: 4 / Billing Hours: 4

This course provides instruction in building web sites using PHP scripting language. Students will learn how to create dynamic, flexible, and interactive web pages, connect to and update a MySQL database as well as develop an individual web site throughout the semester. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CITW 160 or ARTS 173) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Math Level 4.

CIVL 101 Civil Drafting

Credit Hours: 3 / Billing Hours: 4

This course emphasizes plotting land surveying descriptions, traverses, contours, profiles, cross-sections, templates, and the three views required in highway work. Students will learn how to read basic highway plans and make sketches from field notes. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

CIVL 110 Density Certification

Credit Hours: 2 / Billing Hours: 2

Students will study techniques and equipment used in determining properties of aggregates, concrete and other materials. Each student will receive a density certification card after successfully completing the course. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CIVL 120 Surveying

Credit Hours: 4 / Billing Hours: 6

Introduces students to surveying technology and the use of the latest equipment. Emphasis is placed on developing skills in operation and the proper handling of high-tech equipment used in the surveying business. Good field work habits and office engineering are covered. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Minimum 2.0 in MATH 114 or Math Level 5.

CIVL 124 Route Survey

Credit Hours: 4 / Billing Hours: 6

This course includes surveying computations in such areas as horizontal curves, vertical curves, spirals and data needed for highway construction layout. Also includes work with surveying computation software and fieldwork with total stations. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in CIVL 120.
- Placement Score: Math Level 5.

CIVL 131 Traffic Technology

Credit Hours: 3 / Billing Hours: 3

This course introduces basic principles of traffic engineering design, signing and pavement marking, traffic signalization and how these elements are used to improve motorists' safety. Emphasis is placed on the use of these devices in and around construction zones. Basic concepts on traffic flow and capacity analysis will be presented. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

CIVL 135 Soils Technology

Credit Hours: 3 / Billing Hours: 3

Exploring, sampling, testing and evaluating subsurface materials and their effect on construction are covered in this course. Includes an introduction to methods of subsurface drainage, soil classifications and physical properties of soils; and discussion, demonstration and performance with equipment used in density testing. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MATH 114 or Math Level noted below.
- Placement Score: Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CIVL 141 Site Inspection

Credit Hours: 3 / Billing Hours: 3

This course introduces students to the principles of construction inspection including safety practices (MIOSHA), legal aspects, reporting, and applicable specifications, codes and standards. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

CIVL 143 Site Dsgn & Layout/Civil Techn

Credit Hours: 3 / Billing Hours: 4

In this course, students apply road and land development procedures, and interpret survey data in assembling sets of construction drawings. Topics include developing cross sections, road profiles, and utility layouts. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CIVL 101.
- Placement Score: None.

CIVL 225 Civil Tech Independent Study

Credit Hours: 1 to 4 / Billing Hours: 1 to 4

Students are allowed to undertake special research projects to apply to their professional experience and academic major. A minimum of 48 hours of work per credit is required and the completion of a written project report. This course cannot be audited. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: Restriction: Civil Technology Majors.

CIVL 241 Statics/Strength of Materials

Credit Hours: 4 / Billing Hours: 5

Structural terminology and concepts are introduced. General behavior of structural members in compression, stress, strain, creep, fatigue, yield, tension, shear, bending and torsion due to different loading conditions are studied. Loads and forces, conditions of stability and equilibrium in structural frames and free body analysis for reactions and member forces are considered. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Minimum 2.0 in MATH 114 or Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CIVL 290 Civil Technology Internship Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Civil Technology students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

CJUS 101 Intro to Criminal Justice Credit Hours: 3 / Billing Hours: 3

An orientation course designed to provide students with a current, coordinated, and comprehensive overview of criminal justice as an institution and as a system. It will emphasize historical, philosophical, constitutional, and organizational perspectives. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 102 Crime Causes and Conditions Credit Hours: 3 / Billing Hours: 3

Why do some individuals pursue a life of crime? This course introduces and analyzes the past, present, and future of criminology. Sociological, psychological, and biological factors are examined to determine their interaction with and impact on criminal behavior. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 103 Criminal Law Credit Hours: 3 / Billing Hours: 3

This course is a study of substantive criminal law. Includes the classification of crimes, common law concepts, elements of specific crimes, and discussion of current trends in criminal law nationally and locally. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CJUS 101 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 104 Theory of Patrol

Credit Hours: 3 / Billing Hours: 3

This course is designed to introduce the student to the concepts and theories of patrol and the delivery of police services. The class will cover areas such as police field operations, community policing, basic field procedures, traffic direction and enforcement, arrest, reports and records. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: CJUS 101.

CJUS 106 Intro to Juvenile Justice

Credit Hours: 3 / Billing Hours: 3

This course emphasizes the legal foundation, as defined by Michigan law, upon which the criminal justice practitioner must rely in dealing with the juvenile offender and the juvenile victim. In addition, this course will introduce the student to the juvenile offender. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 126 Juvenile Offenders/Families

Credit Hours: 3 / Billing Hours: 3

This course takes an in-depth look at the diverse nature of juvenile offenders and their family backgrounds. Issues impacting juvenile behavior will be discussed including: family dynamics, family as a social system, behavior cycles, drugs, gender, gangs, and other elements of the social environment. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (CJUS 106 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 131 Introduction to Corrections

Credit Hours: 3 / Billing Hours: 3

An introduction to the agencies and processes within the correctional system. An examination of correctional officer behavior, corrections legislation, the courts, correctional institutions and their operation, and administration. Includes overview of history sentencing, probation, parole, and community corrections. This course is required for the corrections officer vocational certificate. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 133 Juvenile Residential Services

Credit Hours: 3 / Billing Hours: 3

All aspects of court-placement of juveniles in residential facilities will be examined. Staffing and operations of both public and private agencies will be discussed, focusing both on treatment and detention issues. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CJUS 106 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 134 Probation and Parole

Credit Hours: 3 / Billing Hours: 3

An introductory level course in probation and parole with a strong emphasis on counseling, interviewing skills, and supervision techniques. Students will also learn the mechanics of writing violation, progress, and pre-sentence reports. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CJUS 101 or CJUS 131) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 135 Legal Issues in Corrections

Credit Hours: 3 / Billing Hours: 3

Study of current constitutional, federal and state law as it pertains to penal institutions, inmates, and correctional employees. The course will provide students with insight into policy considerations behind state and federal law, legal process, court decisions, and inmate rights. This course is required for the correctional officer vocational certificate. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (CJUS 130 or CJUS 131 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 201 Criminal Justice Org/Admin

Credit Hours: 3 / Billing Hours: 3

This course examines the primary concepts of criminal justice organization and administration emphasizing processes and theories, communications, leadership, personnel, budgeting, planning, information management, and community relations. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CJUS 101.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 203 Criminal Procedure

Credit Hours: 3 / Billing Hours: 3

This course is a study of criminal procedural law. It will include laws of arrest, search and seizure, and admissions and confessions; suspect identification; and rules of evidence. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CJUS 103.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 204 Criminal Investigation

Credit Hours: 4 / Billing Hours: 4

This course examines the fundamentals of criminal investigation such as crime scene procedures, collection and preservation of physical evidence, interviewing, interrogation, and latent investigation. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CJUS 101.
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: Minimum 2.0 in CJUS 103.

CJUS 205 Policing into the 21st Century

Credit Hours: 3 / Billing Hours: 3

This course describes who the police are, what they do, and how they do it. It will list the jobs available in policing, how to go about getting them, what skills are needed, and what you do when you get those jobs. It will prepare students for the challenges of policing into the 21st Century. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CJUS 101.
- Placement Score: Reading Level 5 and Writing Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 207 Digital Evidence/1st Responder Credit Hours: 3 / Billing Hours: 3

This course is designed to acquaint students with the relationship of the ever evolving world of technology and the impact it plays within our society upon crime. This course emphasizes the various uses of technology and the activity of information that can be used to engage in criminal behavior. Students will be able to identify digital evidence that can be stored, received, and transmitted on electronic devices. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: Minimum 2.0 in CJUS 101.

CJUS 210 Intro to Forensic Science Credit Hours: 3 / Billing Hours: 3

Forensic Science is the application of scientific methods in the analysis of physical evidence generated by criminal activity. This introductory course will cover four major aspects of physical evidence from actual criminal cases including crime scene investigation; the collection, preservation and value of physical evidence; the forensic analysis of physical evidence; and expert testimony. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 245 Report Writing/Crim Justice Credit Hours: 3 / Billing Hours: 3

This course is designed to meet the needs of criminal justice writing. Components include grammar, punctuation, sentences, paragraphs, styles of writing, and proper documentation of work effort. The course includes frequent writing practice. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CJUS 101 or CJUS 131).
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 247 Juvenile Justice: Special Pops Credit Hours: 3 / Billing Hours: 3

The course provides an in-depth examination of special populations of juvenile delinquents. Attention will be focused on the issues and practices of providing treatment to female delinquents, juveniles in the mental health system, youthful offenders, and juvenile sexual offenders. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CJUS 101 and CJUS 106).
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: Minimum 2.0 in (CJUS 126 and HUSE 110 and PSYC 200).

CJUS 250 Correctional Institutions Credit Hours: 3 / Billing Hours: 3

This course examines the historical development of corrections institutions in the United States. The organizational structure, purpose, programs, security aspects, and prisoner due-process rights, as well as the future of institutions will be examined. This course is required for the correctional officer vocational certificate. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (CJUS 131 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 251 Correctional Clients Credit Hours: 3 / Billing Hours: 3

This course emphasizes the needs, identities, and development of special needs offenders. It will also allow students to gain insight into the behaviors and motivations of, as well as intervention strategies for, these offenders. This course is required for the correctional officer certificate. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (CJUS 130 or CJUS 131 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4.

CJUS 255 Human Relations/Crim Justice Credit Hours: 3 / Billing Hours: 3

This course focuses on understanding those aspects of interpersonal relations most directly linked to attainment of organizational and individual goals in work settings. This course is required for the correctional officer vocational certificate. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (CJUS 101 or CJUS 130 or CJUS 131) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 270 Police Academy I

Credit Hours: 11 / Billing Hours: 14

Police Academy I is the basic training required for all police officers in the State of Michigan. The training is certified through the Michigan Commission on Law Enforcement Standards. (Offered Fall, Spring)

- Prerequisite Course: Admission to the Police Academy.
- Corequisite Course: CJUS 271 and PFFT 114 and PFHW 120.
- Course Note: \$400 of the Course Fee is non-refundable.

CJUS 271 Police Academy II

Credit Hours: 14 / Billing Hours: 21

Police Academy II is the basic training required for all police officers in the State of Michigan. The training is certified through the Michigan Commission on Law Enforcement Standards. (Offered Fall, Spring)

- Prerequisite Course: Admission to the Police Academy.
- Corequisite Course: CJUS 270 and PFFT 114 and PFHW 120.

CJUS 272 Local Corrections Academy I

Credit Hours: 5 / Billing Hours: 5

This course is designed to provide entry level skills for the person who wishes to enter the job market as a Local Correctional Officer at a Sheriff's Department or Local Police Detention Center. Topics include prisoner admittance, diversity, ethics, security, and correction report writing. This meets the Michigan Sheriff Coordinating and Training Council requirements. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Corequisite Course: CJUS 273.
- Course Note: The \$60 Course Fee is non-refundable.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 273 Local Corrections Academy II Credit Hours: 3 / Billing Hours: 5

This course is designed to provide entry level skills for the person who wishes to enter the job market as a Local Correctional Officer at a Sheriff's Department or Local Police Detention Center. Topics will include fire response, mental reactions, and prisoner resistance and restraint. This meets the Michigan Sheriff Coordinating and Training Council requirements. (Offering Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Corequisite Course: CJUS 272.
- Course Note: The \$240 Course Fee is non-refundable.

CJUS 285 Law Enforcement Internship Credit Hours: 2 / Billing Hours: 2

Students are required to complete 128 hours of work in an approved law enforcement environment. Written reports are required describing their experiences. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Department approval requires a completed application submitted to the Public Service Careers Office. Students must bring their driver's license and medical insurance card with application. Worksite placement must be discussed and assigned by instructor. Students will be notified by phone upon approval to register for class.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CJUS 286 Juvenile Internship I Credit Hours: 3 / Billing Hours: 3

The student will be placed in a local program dealing with young people from at risk populations. A classroom component includes preparation for job interviews and other skill-building exercises for working in the juvenile justice field. Written reports are required. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in CJUS 106 or concurrently and Department Approval.
- Placement Score: None.
- Course Note: Department approval requires a completed application submitted to the Public Service Careers Office. Students must bring their driver's license and medical insurance card with application. Worksite placement must be discussed and assigned by instructor. Students will be notified by phone upon approval to register for class.

CJUS 288 Corrections Internship Credit Hours: 2 to 4 / Billing Hours: 2 to 4

The student will be placed in a local or state corrections facility that will allow him or her to experience many facets of correction operations. Weekly written reports are required and periodic meetings are mandatory. A minimum of 160 hours is required. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Department approval requires a completed application submitted to the Public Service Careers Office. Students must bring their driver's license and medical insurance card with application. Worksite placement must be discussed and assigned by instructor. Students will be notified by phone upon approval to register for class.

COMM 110 Communication in the Workplace Credit Hours: 3 / Billing Hours: 3

Introduction to oral communication skills in business and technology. Students will learn to interact effectively in diverse workplace situations. Students will learn how to interview for jobs, work effectively in a group, and enhance their use of technology in presentations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Scores: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

COMM 120 Dynamics of Communication

Credit Hours: 3 / Billing Hours: 3

This course is a survey of communication theories and concepts related to interpersonal, small group, public speaking, mediated communication, and could include topics in mass and social media, etc. Students will learn about media and channels used to interact, the influence of technology on those channels, and sociological, psychological, and practical applications of the communication discipline. (Offered Fall, Spring, Summer).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

COMM 130 Fundamentals Public Speaking

Credit Hours: 3 / Billing Hours: 3

Through practical experience, students will develop essential skills to feel confident researching, organizing, drafting, and delivering oral presentations. Attention will be given to accurate outlining, source citation, and appropriate integration of presentational aids. Presentations will occur in informative, persuasive, ceremonial, and small group contexts. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

COMM 200 Small Group Communication

Credit Hours: 3 / Billing Hours: 3

Small group theory and process is examined from a communication perspective. Topics include, goal setting, stages of group development, group roles, leadership, decision making, listening, conflict resolution, problem solving, critical thinking and argumentation. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130 or ENGL 121).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

COMM 240 Interpersonal Communication

Credit Hours: 3 / Billing Hours: 3

Introduction to fundamental principles and skills of interpersonal communication. Students investigate techniques for interacting effectively in family, intercultural, and other interpersonal relationships. Class discussions, learning activities, and assignments assist students in examining the impact of their communication on others and in developing effective interpersonal skills. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130 or ENGL 121).
- Placement Score: Reading Level 5 and Writing Level 6.

COMM 260 Nonverbal Communication

Credit Hours: 3 / Billing Hours: 3

Introduction to the ways people communicate without words. Students investigate nonverbal communication theory and research and learn the messages that these areas communicate in Western and other cultures. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130 or ENGL 121).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

COMM 270 Mass Communication

Credit Hours: 3 / Billing Hours: 3

Introduction to broadcast, film, and print media, their convergence, and their impact on the individual and society. Students investigate, explore, and understand topics including values the media convey, media stereotypes, diversity, gender issues, violence, news, advertising, and the role of media in political campaigns. Assignments and observational projects are designed to help students become enlightened media consumers. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130 or ENGL 121).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

COMM 280 Intercultural Communication

Credit Hours: 3 / Billing Hours: 3

Introduction to the theory and practice of successful intercultural communication. Students investigate how communication is affected by dimensions of cultures, cultural values, world views, relationships, and social institutions. Students will become ethical and skillful intercultural communicators. A grade of 2.0 or higher fulfills the Global Perspectives and Diversity Core requirement for curricula effective Fall 2005 or later. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130 or ENGL 121).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Internet access may be needed for quizzes or other assessments in the course.

CPAR 250 Community Paramedicine I

Credit Hours: 3 / Billing Hours: 0

This course introduces students to the scope of practice and the role of the Community Integrated Paramedic within the healthcare system. Students will obtain an understanding of various systems of Community Paramedicine, the system they function within, and the patients they serve. A valid State of Michigan Paramedic License is required through the end of program. (Offered Fall)

- Prerequisite Course: None. Admission to the EPiC Community Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: CPAR 251 and CPAR 252.

CPAR 251 Chronic Care in the Community

Credit Hours: 5 / Billing Hours: 0

This course introduces students to the management of chronic disease states commonly encountered in the community setting. Students will obtain an understanding of treatment and assessment modalities which will enable them to provide safe and efficient patient care. A valid State of Michigan Paramedic license is required through the end of program. (Offered Fall)

- Prerequisite Course: None. Admission to the EPiC Community Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level of 6 and Math Level 4.
- Corequisite Course: CPAR 250 and CPAR 252.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CPAR 252 Community Paramedicine II

Credit Hours: 3 / Billing Hours: 0

This course immerses students into the various roles of a Community Paramedic where they are able to evaluate, plan, and implement care strategies specific to their scope and role. Students will engage in case studies and scenarios, developing critical thinking skills required of a Community Paramedic. A valid State of Michigan Paramedic license is required through the end of program. (Offered Fall)

- Prerequisite Course: None. Admission to the EPiC Community Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: CPAR 250 and CPAR 251.

CPAR 270 Community Paramedic Clinical

Credit Hours: 5 / Billing Hours: 0

This course immerses students into clinical rotations allowing them to experience various patient encounters. Under the supervision of a clinical preceptor and working within a healthcare team, students will perform interventions, assess and manage patients. A valid State of Michigan Paramedic license is required through the end of program. (Offered Spring)

- Prerequisite Course: Minimum 3.0 in (CPAR 250 and CPAR 251 and CPAR 252).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

CPSC 101 Intro to Computer Science

Credit Hours: 3 / Billing Hours: 3

Introduction to computer science and the programming profession. Topics include an overview of number systems, relational operators, logic, Boolean algebra, professionalism and ethics, machine coding, computer components, algorithms, and foundations of computational problem solving in Python. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MATH 109 or (MATH 120 concurrently) or Math Placement Score indicated below.
- Placement Score: [Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently)] and Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

CPSC 230 Algorithms and Computing w/C++ Credit Hours: 4 / Billing Hours: 4

This course develops students' skills with using fundamental computational techniques required for continuing study in computer science. Students design, implement and test C++ programs to solve a wide range of problems. Topics include program development, functions, control structures, text file operations, data types/classes, recursion, STL string/vector classes, arrays, pointer variables, and algorithm analysis. Object orientation and data abstraction/information hiding is emphasized. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (CPSC 101 or CIP 110) and minimum 2.0 in MATH 151 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.

CPSC 231 Computing and Data Structures Credit Hours: 4 / Billing Hours: 4

Data abstraction and related theory for representation and access of information using C++. Algorithms and analyses of abstract data structures such as linked lists, stack, queue, and binary trees. Analyze properties of graphs, including connectivity, spanning trees, and traversal methods. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in CPSC 230.
- Placement Score: Reading Level 5 and Writing Level 6.

CPSC 260 Computer Science Structures Credit Hours: 4 / Billing Hours: 4

Introduction to foundational concepts for advanced studies in computer science. The course delves into mathematical proofs, discrete mathematical structures such as sets, counting methods, matrices, and relations. The course explores propositional logic, Boolean algebra, and number theory. The curriculum includes deconstruction of algorithms, understanding their efficiency and application, and mastering techniques related to trees and graphs, including traversal and searching. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in CPSC 230 and minimum 2.0 in (MATH 151 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DANC 100 Intro to Dance Techniques

Credit Hours: 2 / Billing Hours: 3

This course is designed for students with little or no dance experience, with an overview of dance techniques, including, but not limited to, ballet, jazz, tap and modern genres. Basic dance vocabulary, steps, and combinations specific to each genre will be included. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

DANC 102 Beginning Modern

Credit Hours: 2 / Billing Hours: 3

Designed for the students with no dance experience. Basic examination of the history of Modern dance, alignment techniques, spatial relationships, and elementary combinations will be explored. Some improvisation will be used throughout the course to assist in developing kinesthetic, spatial, cognitive, and physical awareness. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

DANC 103 Beginning Jazz

Credit Hours: 2 / Billing Hours: 3

Designed for the student with no dance experience. Included are an overview of Jazz history as well as vocabulary. Basic alignment, isolations, steps, combinations, and rhythms are explored in addition to spatial relationships for the beginning student. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

DANC 290 Dance Studio Internship

Credit Hours: 2 / Billing Hours: 2

Designed for dance students to work with a local professional dance company and or dance school. Opportunities may include advanced dance classes with company members, learning company choreography, experiencing teaching methodologies, and exposure to business aspects of a studio and administrative processes. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: For information, call the Business, Communication and the Arts Office at 517-483-1546.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DCTM 100 Intro to the Built Environment

Credit Hours: 3 / Billing Hours: 4

This course covers concepts in the fields of Architecture, Building Trades, Construction Management, Energy Management, and Civil Technology. Students are guided through the entire process of building construction starting with design and surveying and finishing with the completion of construction and the commissioning process. Topics include properties of air and moisture, heat flows, structural integrity, and materials. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course replaces the following courses: AEET 102, ARCH 100, BLDT 100 and CIVL 100.

DCTM 101 Drafting/Intro to CAD

Credit Hours: 3 / Billing Hours: 4

This course introduces manual and computer drafting used in the building, design and construction industry. Emphasis will be on industry standards of basic drafting procedures, knowledge, and accuracy using traditional manual techniques and multiple CAD software packages. Introduction and creation of two and three-dimensional images used in various disciplines. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course replaces the following courses: ARCH 100 and GRET 203.

DCTM 102 Industrial/Construction Safety

Credit Hours: 2 / Billing Hours: 3

This course covers safety in the industrial workplace and on construction worksites. Included are local, state and federal safety regulations. The focus will be on the prevention of accidents but will teach the correct response if an accident should occur. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: On-line students CANNOT qualify for the OSHA-10 Certification due to OSHA limitations. Students requiring OSHA-10 Certification should enroll in one of the lab/lecture sections. \$11 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DCTM 103 Codes and Specifications

Credit Hours: 3 / Billing Hours: 3

Students will be introduced to codes for the built environment. This course will introduce the process on permits, inspections, reviews process, standards and zoning. The codes referenced will be the Michigan Residential Code and the Michigan Building Code. A basic introduction to plan reading and specification reading will be emphasized. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: This course replaces the following courses: AEET 261, BLDT 277, BLDT 281 and CIVL 142.

DCTM 150 Civil Construction Materials

Credit Hours: 3 / Billing Hours: 4

Students will study techniques and equipment used in constructing bridges, highways, industrial facilities, and pipelines to include determination of properties of soils, aggregates, concrete and other bituminous materials. This class includes coverage of methods of sampling and testing materials. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Minimum 2.0 in (MATH 114 or Math Level 5) and Reading Level 4.

DCTM 200 Construction Management I

Credit Hours: 4 / Billing Hours: 6

This course introduces basic concepts of construction project management. Upon completion of this course, students will have basic knowledge of construction estimating and accounting, construction planning and scheduling, and construction law. Completion of this class will help the student prepare for the Part I of the Certified Professional Constructor examination. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Minimum 2.0 in (ACCG 101 and (ARCH 113 or ARCH 116) and ARCH 125.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DCTM 201 Construction Management II

Credit Hours: 4 / Billing Hours: 6

This course introduces advanced concepts of construction project management. Upon completion of this course, students will have functional knowledge of construction estimating and accounting, construction planning and scheduling, and construction law. Completion of this class will help the student prepare for the Part II of the Certified Professional Constructor examination. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [DCTM 200 and (MATH 115 or Math Level noted below)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 6.
- Recommended: ARCH 125.

DCTM 210 MEP Equipment for Buildings

Credit Hours: 3 / Billing Hours: 3

Students will learn about mechanical, electrical, plumbing, and fire (MEP) systems in buildings. These systems are becoming increasingly complex and are occupying larger portions of building project work. Students will understand these systems and be able to schedule, estimate, and coordinate them within the general construction process. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: ARCH 113 and DCTM 100.

DCTM 220 BIM for Construction

Credit Hours: 4 / Billing Hours: 6

This course provides practical guidance on project methods and workflows and hands-on labs for implementing Building Information Modeling (BIM) and technology in all phases of the design and construction management process. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: DCTM 210.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 140 Oral Histology & Embryology

Credit Hours: 1.5 / Billing Hours: 1.5

This course provides an introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and orofacial structures. (Offered Fall)

- Prerequisite Course: None. Admission to Dental Hygiene Program is required.
- Placement Score: None.
- Corequisite Course: DENT 142 and DENT 144 and DENT 146 and DENT 148.

DENT 142 PreClinical Dental Hygiene

Credit Hours: 3 / Billing Hours: 3

This course is offered concurrently with DENT144 to provide dental hygiene students with the introductory knowledge, skills and attitudes to function in the clinical setting and be able to continue in clinical dental hygiene courses. Emphasis is placed on scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and comprehensive care of the patient. (Offered Fall)

- Prerequisite Course: None. Admission to Dental Hygiene Program is required.
- Placement Score: None.
- Corequisite Course: DENT 140 and DENT 144 and DENT 146 and DENT 148.

DENT 144 PreClinic Dental Hyg Practice

Credit Hours: 2 / Billing Hours: 8

This course is offered concurrently with DENT142 to provide clinical application to basic theories and procedures used in dental hygiene practice. The primary emphasis is on the techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. The dental hygiene student will have an opportunity to practice these techniques on manikins and student partners in the clinic. (Offered Fall)

- Prerequisite Course: None. Admission to Dental Hygiene Program is required.
- Placement Score: None.
- Corequisite Course: DENT 140 and DENT 142 and DENT 146 and DENT 148.
- Course Note: \$1,200 of the course fee is for a dental supply kit and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 146 Head, Neck & Oral Anatomy

Credit Hours: 3.5 / Billing Hours: 5.5

This course provides a detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth. Head and neck anatomy is also studied and is related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills while studying this information. (Offered Fall)

- Prerequisite Course: None. Admission to Dental Hygiene Program is required.
- Placement Score: None.
- Corequisite Course: DENT 140 and DENT 142 and DENT 144 and DENT 148.

DENT 148 Dental Radiography

Credit Hours: 3 / Billing Hours: 5

This course provides a study of radiation physics, hygiene, and safety theories. Emphasis is placed on the essentials of oral radiographic techniques and interpretation of radiographs. Course content includes exposure of intra-oral radiographs, quality assurance, patient selection criteria, anatomical landmarks, radiation characteristics, and biology. (Offered Fall)

- Prerequisite Course: None. Admission to Dental Hygiene Program is required.
- Placement Score: None.
- Corequisite Course: DENT 140 and DENT 142 and DENT 144 and DENT 146.

DENT 152 Dental Hygiene I

Credit Hours: 2 / Billing Hours: 2

This course is a continuation of information designed to provide an opportunity to enhance performance of procedures in a clinical setting. Emphasis will be placed on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, and modifications of dental hygiene care for specific patient populations. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 140 and DENT 142 and DENT 144 and DENT 146 and DENT 148).
- Placement Score: None.
- Corequisite Course: DENT 154 and DENT 156 and DENT 158 and DENT 161.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 154 Clinical Dental Hygiene I

Credit Hours: 2 / Billing Hours: 8

This course provides an introduction to the clinic and patient, clinical skills, patient assessment, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures in the clinical setting. Practical experience is simultaneously related to theory. Direct supervision is provided by clinical faculty. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 140 and DENT 142 and DENT 144 and DENT 146 and DENT 148).
- Placement Score: None.
- Corequisite Course: DENT 152 and DENT 156 and DENT 158 and DENT 161.
- Course Note: \$500 of the course fee is for a dental supply kit and is non-refundable.

DENT 156 Nutrition

Credit Hours: 2 / Billing Hours: 2

This course discusses the identification, function, metabolism, and sources of specific nutrients required for normal growth, development, and repair of oral tissues. Application of principles to the individual's nutritional needs, providing nutritional counseling and diet information to all patients, including special needs patients, and the relationship of nutrition to oral health are emphasized. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 140 and DENT 142 and DENT 144 and DENT 146 and DENT 148).
- Placement Score: None.
- Corequisite Course: DENT 152 and DENT 154 and DENT 158 and DENT 161.

DENT 158 Dental Pharmacology

Credit Hours: 3 / Billing Hours: 3

A study of the importance of the pharmacologic aspects of those drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration, and effects upon the body systems. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 140 and DENT 142 and DENT 144 and DENT 146 and DENT 148).
- Placement Score: None.
- Corequisite Course: DENT 152 and DENT 154 and DENT 156 and DENT 161.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 161 Principles of Periodontics

Credit Hours: 3 / Billing Hours: 3

This course provides a study of the normal and diseased periodontium to include the structural, functional, and environmental factors. Emphasis is placed on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventive periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 140 and DENT 142 and DENT 144 and DENT 146 and DENT 148).
- Placement Score: None.
- Corequisite Course: DENT 152 and DENT 154 and DENT 156 and DENT 158.

DENT 174 Clinical Dental Hygiene II

Credit Hours: 1 / Billing Hours: 4

This course provides a continuation of clinical skills, patient assessment, treatment and appointment scheduling, preventive techniques and application of dental hygiene procedures. Work-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by clinical faculty in a clinical setting. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (DENT 152 and DENT 154 and DENT 156 and DENT 158 and DENT 161).
- Placement Score: None.
- Corequisite Course: DENT 176.

DENT 176 Dental Materials & Methods

Credit Hours: 3 / Billing Hours: 5

This course provides a study of the composition, chemical and physical properties, manipulation, and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (DENT 152 and DENT 154 and DENT 156 and DENT 158 and DENT 161).
- Placement Score: None.
- Corequisite Course: DENT 174.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 240 Anxiety & Pain Control Mgmt

Credit Hours: 2.5 / Billing Hours: 4

This course will provide the student with basic and current concepts of local anesthetics nitrous oxide and pain control for the safe and effective administration of local anesthetics and nitrous oxide/oxygen sedation. Instruction in local anesthetic technique, nitrous oxide technique, and an introduction to the use of nitrous oxide as an analgesia is included. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (DENT 174 and DENT 176).
- Placement Score: None.
- Corequisite Course: DENT 242 and DENT 244 and DENT 247 and DENT 248.

DENT 242 Dental Hygiene III

Credit Hours: 2 / Billing Hours: 2

This course is a continuing development of a theoretical framework of dental hygiene treatment with advancement of dental hygiene proficiency in all areas of dental hygiene treatment. Case histories from patients are presented and discussed along with preventive measures employed against disease concurrent with clinical practice, with emphasis on special needs patients. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (DENT 174 and DENT 176).
- Placement Score: None.
- Corequisite Course: DENT 240 and DENT 244 and DENT 247 and DENT 248.

DENT 244 Clinical Dental Hygiene III

Credit Hours: 3 / Billing Hours: 12

The clinical sessions combine dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care includes assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental hygiene care, nonsurgical periodontal therapy, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of dental diseases. The course consists of faculty supervised patient treatment in the clinic. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (DENT 174 and DENT 176).
- Placement Score: None.
- Corequisite Course: DENT 240 and DENT 242 and DENT 247 and DENT 248.
- Course Note: \$350 of the course fee is for a dental supply kit and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 247 Oral Pathology

Credit Hours: 3 / Billing Hours: 3

This course is a study of the diseases affecting oral tissues, including the principles of inflammation and repair, developmental and genetic disturbances, oral infections, injuries and neoplasms. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (DENT 174 and DENT 176).
- Placement Score: None.
- Corequisite Course: DENT 240 and DENT 242 and DENT 244 and DENT 248.

DENT 248 Dental Public Health & Educ

Credit Hours: 3 / Billing Hours: 3

This course provides a study of the principles and concepts of community public health and dental health education. Emphasis is placed on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (DENT 174 and DENT 176).
- Placement Score: None.
- Corequisite Course: DENT 240 and DENT 242 and DENT 244 and DENT 247.

DENT 252 Dental Hygiene IV

Credit Hours: 2 / Billing Hours: 2

This course is a continuation of information to prepare the student for advanced clinical practice. An in-depth study of dental hygiene care for patients with special needs is provided along with an examination of the dental hygienist's role in practice settings and employment considerations. Resume preparation, job interviewing, employment preparation, and an understanding of the law and professional ethics of dental hygiene are covered. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 240 and DENT 242 and DENT 244 and DENT 247 and DENT 248).
- Placement Score: None.
- Corequisite Course: DENT 254 and DENT 256.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 254 Clinical Dental Hygiene IV

Credit Hours: 3 / Billing Hours: 12

The clinical session combines dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care includes assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental hygiene care, nonsurgical periodontal therapy, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of dental diseases. The course consists of faculty supervised patient treatment in the clinic. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 240 and DENT 242 and DENT 244 and DENT 247 and DENT 248).
- Placement Score: None.
- Corequisite Course: DENT 252 and DENT 256.

DENT 256 Community Oral Health

Credit Hours: 1.5 / Billing Hours: 1.5

Students assess, plan, implement, and evaluate a community dental health project. Dental specialties and the dental hygienist's role in recognizing specialty care needed by patients is presented. Each student participates in a variety of community health projects and observing in dental specialty practices. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (DENT 240 and DENT 242 and DENT 244 and DENT 247 and DENT 248).
- Placement Score: None.
- Corequisite Course: DENT 252 and DENT 254.

DENT 270 Dental Hygiene Board Review

Credit Hours: 2 / Billing Hours: 2

This course will provide students with a review of previous DENT course material in order to prepare the student for the National Dental Hygiene Board licensing exam. Students inventory their current knowledge of previously learned program material through a variety of class exercises including: self-assessments & personal study plans, case-based question group reviews, along with on-line available review materials. The course will also emphasize testing techniques and question construction. It will conclude with a mock board examination. (Offered Spring)

- Prerequisite Course: None. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DENT 290 Directed Study Credit Hours: 0.25 to 3 / Billing Hours: 0.25 to 6

This course provides selection of content from the Dental Hygiene curriculum to update or enhance current knowledge and skill for returning students and health care professionals. Through evaluation of previous learning, examinations, self study, and scheduling into needed lectures and labs, students are advanced-placed or readmitted into the Dental Hygiene Program. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.

DMAC 120 Intro to Audio Production Credit Hours: 4 / Billing Hours: 4

Students will learn fundamental concepts of contemporary audio production. Using Digital Audio Workstations and modern analog components, students will experience recording, editing, mixing, session and data management, and create content that meets modern broadcast and web delivery standards. Students will explore recording audio during a video recording, audio for video post-production, and will experience a client-based production model, culminating in the creation of deliverable media. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 130 Intro to Video Production Credit Hours: 4 / Billing Hours: 4

A hands-on, practical application course; students will learn the fundamental concepts of digital video production. Hands-on classroom exercises will include basic non-linear editing, lighting, videography/cinematography, and the distribution of digital media. Digital Video Production is the video foundation course required of all DMAC students. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DMAC 131 Digital Cinematography I

Credit Hours: 4 / Billing Hours: 4

In this intermediate digital cinematography course, students will learn to use LED, tungsten, HMI, and fluorescent lighting systems, along with grip equipment, to design, shape, bounce, and diffuse light. Students will work hands-on and utilize the tools typically used on productions, including an array of light fixtures, stands, clamps, power distribution, and hardware. (Offered Fall, Spring)

- Prerequisite Courses: Minimum 3.0 in DMAC 130.
- Placement Scores: Reading Level 5 and Writing Level 6.

DMAC 132 Video Post-Production I

Credit Hours: 4 / Billing Hours: 4

A hands-on course, Video Post-Production I will present the student with an extensive experience in non-linear post-production using a computer-based editing platform. Learning activities within and outside the classroom are designed to provide a technical and creative foundation in the procedures used by video and digital cinema editors. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in DMAC 130.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 140 Pre-Production Design

Credit Hours: 3 / Billing Hours: 3

This introductory course focuses on the fundamental concepts of pre-production design. Hands-on classroom exercises will find students creating a variety of pre-production materials including storyboards, scripts, treatments, project request forms, project budget forms, site survey form, pre-production checklist, production schedules, etc. Pre-Production Design is required of all DMAC students. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DMAC 141 Ethics and Impact of the Media

Credit Hours: 3 / Billing Hours: 3

This course explores the effects of Cinema, Television, and Mass Media on American culture. Topics such as privacy, censorship, violence, and portrayals of minorities and women are discussed and analyzed. Course discussions occur within an ethical reasoning framework. Ethics and Impact of the Media is required for all DMAC students (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 231 Digital Cinematography II

Credit Hours: 4 / Billing Hours: 4

Through hands-on exercises in the studio and on location, students will combine the technical aspects of cinematography including ISO, WB, FPS, shutter angle, resolution, and recording format with the aesthetic considerations of lens choice, framing, composition, camera perspective, and movement to create compelling visual images and engaging visual stories. Students in this class will be utilizing the RED Camera. (Offered Summer)

- Prerequisite Course: Minimum 3.0 in DMAC 131.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 232 Video Post-Production II

Credit Hours: 4 / Billing Hours: 4

Video Post-Production II focuses on the advanced technical, creative, and design issues of non-linear editing. Hands-on classroom exercises will include video compositing, color correction, advanced effects, media management, and networking. Based upon these exercises, students will manage and edit several short form projects deliverable in a variety of digital formats. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in DMAC 132.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DMAC 234 Studio Production Techniques

Credit Hours: 4 / Billing Hours: 4

This practical application course focuses on the fundamental concepts of television studio production. Hands-on classroom exercises will find students operating in a variety of production roles including but not limited to director, technical director, camera operator, graphics operator, audio engineering, floor director, etc. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in DMAC 130.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 240 Employment Issues in Media

Credit Hours: 2 / Billing Hours: 2

This course will develop an individual's understanding of media industry issues related to organizational and self-employment. Class sessions and assignments contain practical exercises aimed at developing the individual's employability. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (DMAC 120, DMAC 130 and DMAC 140).
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 246 Workshop: Video

Credit Hours: 2 / Billing Hours: 2

A practical application course in which students will, under the direct supervision of a faculty member, work as a member of a production team to stream live sporting events. Students may serve in a variety of production roles, including director, technical director, floor director, camera operator, and graphics and replay. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in DMAC 130.
- Placement Score: None.

DMAC 255 Digital Presentation & Signage

Credit Hours: 4 / Billing Hours: 4

This course focuses on environmental digital media. Using production and design tools, students will create presentations for open spaces and non-standard resolution venues, as well as retail outlets, restaurants, airports, and other public hubs. This includes simple photo/video and graphics to complicated touch-screen interactions. Students may earn over 30 industry acknowledged certifications. (Offered Spring).

- Prerequisite Course: Minimum 2.5 in DMAC 232 or department approval.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

DMAC 260 World Cinema

Credit Hours: 4 / Billing Hours: 4

This survey course introduces students to pre-eminent international filmmakers and film movements. World Cinema explores social, political, economic and historical contexts pertaining to film production to create an understanding of the relationship between cinema, story telling and national culture. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 295 Media/Cinema Portfolio

Credit Hours: 2 / Billing Hours: 2

The student will assemble a portfolio under faculty supervision that represents the student's attainment of DMAC program outcomes. The Portfolio created in this course can be used for securing employment or acceptance into a four-year school. This course is intended to be a capstone course in the DMAC curriculum. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in DMAC 240 and 48 or more credits toward the DMAC degree and Department Approval Required.
- Placement Score: Reading Level 5 and Writing Level 6.

DMAC 296 Media/Cinema Internship

Credit Hours: 3 / Billing Hours: 3

This course provides an opportunity for students to work in external media or cinema settings under professional supervision. Students work closely with faculty in arranging and evaluating the workplace experience. Placement is contingent upon interview results between the student and interview site. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Restriction: Digital Media and Cinema Majors Only.

DTSC 200 Principles of Data Science

Credit Hours: 4 / Billing Hours: 4

This course develops fundamental skills to prepare students for further learning in advanced topics of Data Science, the study of extraction of knowledge from data. Students will learn the methodology involved and the fundamentals of the tools required to perform data analytics for the role of a data scientist. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (CPSC 101 and STAT 215).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

- Placement Score: Reading Level 5 and Writing Level 6.

DTSC 201 Data Science with Python

Credit Hours: 4 / Billing Hours: 4

This course develops fundamental and advanced skills to prepare students for a career in the field of data science. Students will continue to develop their skillset with the Python coding language and learn how to prepare and communicate data analysis results to stakeholders. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in DTSC 200.
- Placement Score: Reading Level 5 and Writing Level 6.

ECON 120 Power, Authority and Exchange

Credit Hours: 4 / Billing Hours: 4

A comparative study of ancient and modern economic and political systems and theories in different parts of the world. An emphasis will be placed on the evolution of economic and political organizations and the impact these have on societies and individuals. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

ECON 201 Principles of Economics-Micro

Credit Hours: 4 / Billing Hours: 4

This course is designed to develop objective consideration of economic issues and provides information and understanding of how resources are allocated by prices. Topics for study include price theory, consumer demand, cost and market structure, the role of government in the market, resource pricing, and international trade. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ECON 202 Principles of Economics-Macro Credit Hours: 4 / Billing Hours: 4

This course addresses the theory of national income, employment and the price level, and government fiscal and monetary policies designed to influence aggregate economic activity. It also addresses exchange rates, international financial relationships, and economic growth. (Offered Fall, Spring, Summer)

- Prerequisite Course: ECON 201 or concurrently.
- Placement Score: Reading Level 5 and Math Level 4.

ECON 213 U.S. Economic/Business History Credit Hours: 3 / Billing Hours: 3

This course provides a survey of American economic and business history, change, and growth since the pre-colonial period to the present. Topics include an overview of business organization, the role of technological change, money and banking, industrialization, demography, public economic policy, living standards, and patterns of labor and capital. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

ECON 260 Comparative Economic Systems Credit Hours: 3 / Billing Hours: 3

A comparison of different global economic systems and their impact on economic growth, distribution of income and opportunity, and economic treatment of women and minorities. Theories, philosophies, historical development and current practices will be examined. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.



2025-2026 Course Descriptions

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EDUC 204 Educational Psychology

Credit Hours: 3 / Billing Hours: 3

Educational psychology examines the contribution of psychology to education, emphasizing childhood development, learning, motivation, measurement, and both individual and group dynamics that affect pupils' achievements. Research on specific programs and strategies designed to improve instruction and learning will be explored. This class is designed for potential certified teachers or paraprofessionals. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

EDUC 220 Foundations of Education

Credit Hours: 3 / Billing Hours: 3

An overview of schools in society, including structures and foundations of education throughout history. This course discusses the relationships between schools and the social, political, legal, historical, financial, and cultural contexts of education. Emphasis on social justice and equity in education and best practices in culturally responsive teaching. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

EDUC 226 Foundations of Literacy

Credit Hours: 3 / Billing Hours: 3

This course covers principles and practices of effective literacy instruction for emergent, beginning, transitional, intermediate, and proficient readers. Topics include development of phonological awareness, word recognition, morphology, phonics, comprehension, fluency, speaking, and listening. Student-centered formative and summative assessment as well as intervention for struggling readers is addressed. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: EDUC 220 and EDUC 204.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

EDUC 230 Exceptional Learners

Credit Hours: 3 / Billing Hours: 3

An introduction to exceptional learners for potential elementary or secondary teachers and teacher paraprofessionals. The physical, social, emotional and cognitive characteristics of exceptional learners and students with special needs are defined. Emphasis is placed on the exceptionality and disability categories addressed in state and federal special education mandates. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

EDUC 280 Teacher Education Practicum

Credit Hours: 3 / Billing Hours: 3

This course requires students to work with a teacher in an educational setting, thus receiving practical experience working with children in K-12 classrooms at two different grade levels. Combined with readings, reflections, and on-campus classroom discussion, students should gain an appreciation for the role of professional teachers. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1) This course requires 70 additional hours of practical experience in K-12 classrooms at two different grade levels approved by the instructor. Information on field placement and assignment will be given during the first day of class. You cannot pass this course unless all 70 hours in two different K-12 classrooms have been completed.
 - o 2) All public schools are required to ask for a background check for anyone who regularly visits a K-12 school building. Students in EDUC 280, Teacher Education Practicum, should be prepared to present a completed [ICHAT](#) (online State background check) to their practicum site at the beginning of the assignment.

ELTA 105 Elect. Industry Orientation

Credit Hours: 0.5 / Billing Hours: 0.5

An overview of laws and standards that apply to the electrical construction industry in the State of Michigan. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTA 106 Basic Electrical Calculations

Credit Hours: 2 / Billing Hours: 2

Reviews mathematical concepts required of the electrical technician in their study of electrical theory: fractions, ratios, proportions, powers and roots as used in Ohm's and Watt's Laws. Basic right triangle trigonometry, graphing and the reading of a tape measure are also discussed. A basic scientific calculator will be required and used in class. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

ELTA 120 AC Fundamentals - Electrician

Credit Hours: 2 / Billing Hours: 3

A practical approach to calculations of alternating current circuit quantities that an electrician may be required to use in the electrical trade. Impedance and power relationships will be explored for both single and three-phase circuits. (offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 110 or ELTE 108) and [Minimum 2.5 in (ELTA 106 or MATH 114) or Math Level noted below].
- Placement Score: Reading Level 4 and Writing Level 2 and Math Level 5.
- Course Note: \$8 of the Course Fee is non-refundable.

ELTA 155 Transformer Fundamentals

Credit Hours: 2 / Billing Hours: 3

This course covers alternating current transformers. Topics include operating principles, transformer calculations, single phase transformers, three phase transformers, autotransformers, and transformer connections. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [ELTE 121 or (ELTA 120 or concurrently)].
- Placement Score: Reading Level 4 and Writing Level 2.
- Course Note: \$8 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTA 160 PLC Overview for Electricians

Credit Hours: 1 / Billing Hours: 2

This course provides a practical overview of programmable logic controllers with focus on operating principles and installation. Topics include the capabilities, installation, programming, (examine on/off, timers and counters) and connecting of external devices. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ELTE 130 or ELTE 131).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: ELTA 160 sections require 2 additional lab hours that need to be arranged with the instructor and ELTE lab staff. It is recommended that students attend the additional instructor led lab period assigned to your specific section. Students who choose to utilize the ELTE open lab times to satisfy the arranged lab time, should be aware that the instructor may not be present during this time to answer questions. \$7 of the Course Fee is non-refundable.

ELTA 180 Introduction to Fire Alarms

Credit Hours: 1 / Billing Hours: 1

This course provides an introduction to the installation and operation of fire alarm systems. Topics covered include: wiring methods, components, circuit types, system types and code rules. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ELTE 109 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.

ELTE 104 Employee Worksite Basics

Credit Hours: 1 / Billing Hours: 1

This course is designed to prepare students for entering the technical workplace. Students will learn employability skills for entry-level employment in the manufacturing, construction, and utility industries. Upon successful completion of this class, students will be prepared to take the SkillsUSA Energy Industry Employability Skills Assessment. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 108 Practical Electricity I

Credit Hours: 2 / Billing Hours: 3

ELTE is a foundational course in Direct Current electrical theory. Series, parallel and combination circuits are studied in class. Meters are used in lab to measure and confirm the relationships between voltage, current, resistance, and power in studied circuits. (Offered Fall, Spring, Summer)

- Prerequisite: ERESA Student
- Prerequisite Course: Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: ELTE 110 (Practical Electricity) has been divided into two courses to allow more flexibility in scheduling. Each course covers half of the ELTE 110 content: ELTE 108 (Practical Electricity I) runs for the first half of the semester and covers the first half of the ELTE 110 content. ELTE 109 (Practical Electricity II) runs for the last half of the semester and covers the remaining ELTE 110 content. Students who take both ELTE 108 and ELTE 109 will fulfill curriculum guide requirements that list ELTE 110 as a requirement. If you have questions, contact the Electrical Program at 517-483-1360. \$6 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 109 Practical Electricity II

Credit Hours: 2 / Billing Hours: 3

This course applies the concepts covered in ELTE 108 (formerly ELTE 118), to conductance in gases and liquids; batteries; magnetism and motor operation. Conductor sizing, basic household wiring, electrical service components and the State of Michigan licensing law are addressed. Combined with ELTE 108, curricular requirements for ELTE 110 are fulfilled. (Offered Fall, Spring, Summer)

- Prerequisite: ERESA Student
- Prerequisite Course: Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102) or concurrently and Minimum 2.0 in ELTE 108 or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Corequisite Course:
- Course Note: ELTE 110 (Practical Electricity) has been divided into two courses to allow more flexibility in scheduling. Each course covers half of the ELTE 110 content: ELTE 108 (Practical Electricity I) runs for the first half of the semester and covers the first half of the ELTE 110 content. ELTE 109 (Practical Electricity II) runs the last half of the semester and covers the remaining ELTE 110 content. Students who take both ELTE 108 and ELTE 109 will fulfill curriculum guide requirements that list ELTE 110 as a requirement. If you have questions, contact the Electrical Program at 517-483-1360. \$6 of the Course Fee is non-refundable.

ELTE 110 Practical Electricity

Credit Hours: 4 / Billing Hours: 6

This course introduces the student to electricity on a practical level. The student will learn to use meters to measure electrical quantities, do basic circuit calculations, install basic household electrical wiring and investigate the behavior of motors. Reviews electrical codes and standards. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (ELTA 101 or ELTE 100 or ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: Math Level 4.
- Course Note: \$12 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 111 Intro to Industrial Automation Credit Hours: 4 / Billing Hours: 6

Provides a hands-on introduction to computer-based manufacturing through experiments and demonstrations. Topics include computer architecture, operating systems, the internet, text and spreadsheet processing, PLC's, machine vision, programming languages, discrete electronics, computer aided design and network communications. Emphasis placed on the integration of these systems and impact on human lifestyle. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102) or concurrently and ELTE 108 or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Student will be required to provide a 2 gigabyte memory stick (jump drive) with a USB port interface. \$15 of the Course Fee is non-refundable.

ELTE 112 Basic Wiring Installation Credit Hours: 2 / Billing Hours: 3

This course covers installation of a variety of wiring systems in wood frame construction. Students will practice installing nonmetallic sheathed cable, electrical metallic tubing and residential services. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students will be required to provide hand tools not included in the course fee. A list of these tools will be provided at the first class meeting. \$5 of the Course Fee is non-refundable.

ELTE 121 Electrical Mathematics Credit Hours: 5 / Billing Hours: 6

This course utilizes concepts in algebra, vector algebra and trigonometry to solve DC and AC electric circuit problems. Topics will include units, Ohm's Law, network analysis, series parallel and combination DC and AC circuits, inductance, capacitance, AC power relationships and power factor correction. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102) and (ELTE 110 or ELTE 108) and (minimum 2.0 in MATH 114 or Math Level 5).
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 122 Industrial Control Electronics

Credit Hours: 5 / Billing Hours: 7

This course introduces the student to solid-state circuitry used in industry. Students will study diodes, transistors, SCRs, triacs, optical isolators, transducers, power circuits, etc. Laboratory will include oscilloscope usage. The course also includes an introduction to Boolean algebra and digital circuits. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [(ELTE 108 or ELTE 110) and ELTE 111].
- Placement Score: Reading Level 5 and Writing Level 2 and Math Level 5.
- Recommended: Minimum 2.0 in (ELTE 121 or ELTA 120).
- Course Note: \$8 of the Course Fee is non-refundable.

ELTE 123 Motors and Transformers

Credit Hours: 5 / Billing Hours: 7

This course begins with three-phase circuits, including three-phase power measurement. Contains practical introduction to single- and three-phase transformers, motors and alternators. Brief coverage of DC machines. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ELTE 121.
- Placement Score: Reading Level 5 and Writing Level 2 and Math Level 5.
- Course Note: \$10 of the Course Fee is non-refundable.

ELTE 129 Machine Controls I - A

Credit Hours: 2 / Billing Hours: 2.5

This course covers the first half of ELTE 131 and ELTE 130 will cover the second half. Together they emphasize relay logic and controls using industrial standards. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Laboratory exercises include an exploration of three phase power systems; wiring three-phase motor control circuits utilizing two- and three- wire control; interfacing with fluid power control circuits; non-contact sensors; and timers. Troubleshooting skills are emphasized throughout the course. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ELTE 108 or ELTE 110 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$8 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 130 Machine Controls I - B

Credit Hours: 2 / Billing Hours: 2.5

This course covers the second half of ELTE 131 and ELTE 129 covers the first half. Together they emphasize relay logic and controls using industrial standards. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Laboratory exercises include an exploration of three phase power systems; wiring three-phase motor control circuits utilizing two- and three- wire control; interfacing with fluid power control circuits; non-contact sensors; and timers. Troubleshooting skills are emphasized throughout the course. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 129 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$8 of the Course Fee is non-refundable.

ELTE 131 Machine Controls I

Credit Hours: 4 / Billing Hours: 5

Covers relay logic and controls using industrial standards. Use of correct symbols and standard construction of wiring and ladder diagrams is emphasized. Laboratory exercises include wiring three-phase motor control circuits utilizing two- and three-wire control and machine control circuits utilizing limit and proximity switches, timers, relays, etc. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (ELTE 108 or ELTE 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$10 of the Course Fee is non-refundable.

ELTE 132 Control Panel Assembly

Credit Hours: 2 / Billing Hours: 3

This course provides practical experience in the construction of an industrial control panel. The student will layout, assemble, wire, connect, troubleshoot and operate an industrial control panel for an oscillating table drive. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 130 or ELTE 131) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 136 Digital Basics

Credit Hours: 2 / Billing Hours: 3

Introduces digital electronics basics: Binary number system, basic gates, and combination and sequential logic circuits. Laboratory work includes the analysis of digital circuits built on PC boards. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ELTE 130 or ELTE 131).
- Placement Score: Reading Level 5 and Writing Level 2 and Math Level 4.

ELTE 141 National Electrical Code I

Credit Hours: 4 / Billing Hours: 4

An introductory course designed for individuals with little or no knowledge of the Electrical Code. Students will study the structure and scope of the National Electrical Code, focusing on Chapters 1 through 4. These chapters constitute the general rules and most often used portion of the NEC. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students with a minimum of one year of experience may request a waiver for the prerequisites of this class. Call 517-483-1360 to request a waiver.

ELTE 142 National Electrical Code II

Credit Hours: 4 / Billing Hours: 4

This course builds on ELTE141 by applying the National Electrical Code to situations common to the practicing journey electrician. Extensive practice locating and interpreting sections of the NEC helps prepare students for the State Journey Examination. In addition to the NEC, State of Michigan electrical rules will be reviewed. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ELTE 141.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: Students with a minimum of two years experience and a previous course in the National Electrical Code may request a waiver for the prerequisites of this class. Call 517-483-1360 to request a waiver.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 145 Electrical Prints for Building

Credit Hours: 4 / Billing Hours: 5

Covers construction prints emphasizing standard and nonstandard symbols and interpretation of prints. Uses the National Electrical Code to calculate branch circuit, motor circuit, and feeder sizes. Other topics include industrial loads, uninterruptible power supplies, and signaling systems. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ELTE 141.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Recommended: Minimum 2.0 in ELTE 121 or ELTA 120 or equivalent.
- Course Note: This course requires 2 additional lab hours that need to be arranged with the instructor and ELTE lab staff. It is recommended that students attend the additional instructor led lab period assigned to your specific section. Students who choose to utilize the ELTE open lab times to satisfy the arranged lab time, should be aware that the instructor may not be present during this time to answer questions. \$10 of the Course Fee is non-refundable.

ELTE 147 National Electric Code Update

Credit Hours: 1 / Billing Hours: 1

For individuals with National Electrical Code® experience and practical electrical knowledge and hold a journeyman electrician's license, a master electrician's license or a fire alarm specialty technician's license. Students will cover changes to the National Electrical Code® and discuss interpretation of the Code changes. (Offered as needed)

- Prerequisite Course: None
- Recommended: Experience using the National Electrical Code.

ELTE 150 Electric Motor Maintenance

Credit Hours: 2 / Billing Hours: 3

Students learn to diagnose and test electric motors. Students will learn to identify and repair common problems in motors using meters, test equipment and appropriate tools. An introduction to rewinding and metal working procedures is also included. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 154 Utility Prints and Diagrams

Credit Hours: 3 / Billing Hours: 3

This course will develop a student's ability to accurately read various types of blueprints used to document cabling, components and operation of electrical systems. Single-line, riser, schematic, ladder, relay, cabling, and layout diagrams will be addressed. The need for accurate recordkeeping will be reinforced throughout the class. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTA 120 or ELTE 121) or concurrently.
- Placement Score: Reading Level 4 and Writing Level 4 and (Math Level 5 or minimum 2.0 in ELTA 106).

ELTE 156 Lineworker/Utility Rigging

Credit Hours: 3 / Billing Hours: 4

This course covers uses and strengths of ropes, chains, block and tackles, truck-mounted augers, hoists, lifts and capstans. Knots used by lineworkers will receive extensive coverage and practice. Safe working strength of slings, hooks, sheaves, ropes and chains, the use of personal safety equipment, and proper hand signals used in the industry will be covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or TECH 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in MATH 105 or MATH 106]] or P in (NCMA 106 or NCMA 110).
- Course Note: \$10 of the Course Fee is non-refundable.

ELTE 173 Energy Industry Fundamentals I

Credit Hours: 2 / Billing Hours: 2

This course provides students with knowledge of basic and emerging principles and concepts that impact the energy industry including how the industry is organized and operates as a whole. Students will gain a basic understanding of electric power generation, including traditional and alternative sources. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: Minimum 2.0 in ELTE 108.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 174 Energy Industry Fundamental II Credit Hours: 2 / Billing Hours: 2

This course provides students with knowledge of electric power and natural gas transmission and distribution. Students will also learn about career opportunities in the energy industry, including job entry requirements and educational pathways. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 173 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$10 of the Course Fee is non-refundable.

ELTE 181 Pole Climbing I Credit Hours: 0.5 / Billing Hours: 1

An introduction to the climbing of wooden utility poles, this hands-on class gives students climbing instruction, time for developing basic skills and the ability to determine if the student is comfortable at heights. Exposure to the proper use of basic hand tools used in industry is included. (Offered Fall, Summer)

- Prerequisite Course: Program Approval for Acceptance into the Electrical Utility/Lineworker Curriculum.
- Recommended: PFFT 180 Lineworker Fitness A within 1 semester or a passing score on the Lineworker Physical Ability Test (LPAT) within 1 semester.

ELTE 182 Pole Climbing II Credit Hours: 0.5 / Billing Hours: 1

This hands-on class provides students with the opportunity to build climbing technique, comfort working at various heights on the pole, and competency working with tools that are needed for success in advanced climbing classes in the Lineworker program. (Offered Fall)

- Prerequisite Course: Minimum 3.5 in ELTE 181.
- Placement Score: None.

ELTE 185 Pole Climbing Practice I Credit Hours: 0.25 / Billing Hours: 0.5

This hands-on class assumes students have had a minimum of 12 hours of active climbing skill development and provides the opportunity to practice, build and refine climbing technique. (Offered Fall, Spring)

- Prerequisite Course: Minimum 3.5 in ELTE 181.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 232 Machine Controls II

Credit Hours: 4 / Billing Hours: 6

This course is a continuation of ELTE131. Students will work with more components, larger and more complex machine control diagrams, automation interlocking, automatic continuous cycling of machinery, variable speed motor drives, design of control circuits for more complex machines, and the use of AutoCAD for drawing electrical schematics. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [ELTE 131 or (ELTE 129 and (ELTE 130 or concurrently))].
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Course Note: \$10 of the Course Fee is non-refundable.

ELTE 251 Energy Generation & Control I

Credit Hours: 4 / Billing Hours: 5

Provides students with a foundational understanding of electrical power generated by steam turbines, gas turbines, and reciprocating SI and CI engines. Prime movers, generators, governors, regulators and fault protection equipment are covered. Addresses both theory and practice of maintenance, operation, repair and installation of electrical generating systems and related components. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ELTE 121 and (ELTE 130 or ELTE 131) and (ELTE 123 or concurrently)).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 5.
- Recommended: Minimum 2.0 in ELTE 150.
- Course Note: The textbook for ELTE 251 is purchased thru Electrical Generating Association (egsa.org). Students can pick up an order form at West Campus in M127 or U206. Please allow enough time to receive the textbook before class begins.

ELTE 252 Energy Generation & Control II

Credit Hours: 4 / Billing Hours: 5

Second in a two-course sequence addressing electrical power generation. Covers advanced concepts of the prime mover and the generator as well as associated governors, regulators and fault protection equipment. Students will learn both theory and practice of maintenance, operation, repair and installation of electrical generating systems and related components. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 123 and ELTE 251) and Reading Level 5 and Writing Level 4 and Math Level 5.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 255 Power Instrumentation

Credit Hours: 4 / Billing Hours: 5

An introduction to the instrumentation and control of power generation and distribution. The application, calibration and use of smart meters, electronic power meters, potential and current transformers, switchboard instruments & controls, power equipment measurement/protection, temperature measurement, 4-20ma current loop systems and programmable energy meters are explored and applied. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 251 and ELTE 260) and Reading Level 5 and Writing Level 4 and Math Level 5.

ELTE 260 Programmable Controllers I

Credit Hours: 4 / Billing Hours: 6

This course introduces students to the concepts and principles of programmable logic controllers (PLCs). Topics include the basics of ladder logic and function block programming, discrete input and output field device connections, as well as troubleshooting software, hardware, communications and other PLC related equipment. Allen Bradley and Siemens control technology will be utilized. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in [ELTE 131 or (ELTE 129 and (ELTE 130 or concurrently))].
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Course Note: \$5 of the Course Fee is non-refundable.

ELTE 261 Programmable Controllers II

Credit Hours: 6 / Billing Hours: 8

This course provides an in-depth understanding of Allen-Bradley ControlLogix programmable logic controllers. Students will learn about CLX flexible memory structure as it relates to data file types, data manipulation, and scheduling. Bit, word, and file operations will be extensively covered. Topics include Ethernet communications, analog field device connections, safety relays, variable frequency drives, remote I/O, and AB equipment configuration/installation. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ELTE 260 or ELTA 160).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Course Note:
 - o 1) Students are required to provide a 2 gigabyte memory stick (jump drive) with USB port interface.
 - o 2) \$5 of the Course Fee is non-refundable.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 262 Programmable Controllers III Credit Hours: 5 / Billing Hours: 8

This course provides an in depth understanding of industrial automation as it relates to integrated robot systems, distributive process control and safety related systems. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in ELTE 261.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Recommended: Minimum 2.5 in METS 160.
- Course Note: \$15 of the Course Fee is non-refundable.

ELTE 270 Lineworker Fundamentals Credit Hours: 1 / Billing Hours: 1.5

The purpose of this course is to give prospective lineman apprenticeship candidates a good demonstration of the work they will be required to do as an apprentice and journeyman lineworker. Students will be given an introduction to the physical aspects and mental discipline required to perform the duties of a lineworker with demonstrations and physical tests. (Offered Fall, Spring)

- Prerequisite Course: None. Program Approval for Acceptance into the Electrical Utility/Lineworker Curriculum is required.
- Placement Score: None.

ELTE 272 Electric Basic Line Climbing Credit Hours: 4 / Billing Hours: 6

This course is designed to provide students with the basic knowledge and pole climbing skills necessary to progress through the Electric Line Apprentice Program. (Offered Fall, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: \$60 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ELTE 274 Ground/Utility Worker Credit Hours: 6 / Billing Hours: 9

This course is designed to provide students with the basic Ground Worker/Utility Worker knowledge and skills necessary to progress through the Electric Line Apprentice Program. (Offered Fall, Summer)

- Prerequisite Course: Minimum 3.5 in ELTE 272.
- Placement Score: None.

ELTE 276 Energized Secondary Worker Credit Hours: 5 / Billing Hours: 8

This course addresses the knowledge and skills necessary to progress through the Electric Line Apprentice Program with a focus on the installation and maintenance of secondary lines of 120/240 Volts. Safe work practices on energized conductors and aerial lifts, digger derricks and associated equipment are developed and required. (Offered Fall, Summer)

- Prerequisite Course: Minimum 3.5 in ELTE 274.
- Placement Score: None.

ELTE 290 Electrical Internship Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Electrical Technology students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

ELTE 291 Electrical Project Lab Credit Hours: 1 to 4 / Billing Hours: 1 to 4

A guided study of topics of interest in electrical technology. The student will prepare a summary report of activities and demonstrate results of laboratory experiences. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

EMTA 100 Emergency Medical Responder Credit Hours: 4 / Billing Hours: 6

This course will provide the student with the knowledge and skills necessary to manage ill or injured victims at the scene of an emergency until the arrival of ambulance personnel. Successful completion qualifies the student to take the National Registry of Emergency Medical Technicians (NREMT) certification exam, then apply for state licensure as a Medical First Responder (MFR) upon passing exam. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Course Note: In addition to regular class time, students are required to complete Bloodborne Pathogens training online. Information will be distributed via the D2L Course Management site and/or in class.
- \$50 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

EMTA 121 EMT Medical Trauma

Credit Hours: 6 / Billing Hours: 6

This course is the first of three courses to prepare the student as a Basic Emergency Medical Technician (EMT). Emphasis is placed on didactic material including airway management, patient assessment, CPR, soft tissue injuries, head, chest, and abdominal injuries, and proper use of equipment in the delivery of basic emergency care. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6
- Corequisite Course: EMTA 122 and EMTA 125
- Course Note:
 - Students are required to pass an ICHAT Criminal Background investigation completed through the State of Michigan [ICHAT](https://www.michigan.gov/ichat) webpage (<https://www.michigan.gov/ichat>) prior to starting the program. There is a fee for this service. Students must submit ICHAT documentation to the EMS Program office to receive Program Approval to enroll in the Academy. Documentation can be submitted electronically via [email](mailto:LCC-HHS@star.lcc.edu) (LCC-HHS@star.lcc.edu).
 - ALL EMT ACADEMY STUDENTS must attend a mandatory orientation session held at the LCC main campus. Contact the EMS Program at 517-483-1410 for dates and times.
 - There will be an additional cost to students for uniforms and textbooks. Medical supplies are included in the course fees.
 - In addition to regular class time, students are required to complete Bloodborne Pathogens Training online. Information will be distributed via the D2L Course Management site and/or in class.

EMTA 122 EMT Skills

Credit Hours: 3.5 / Billing Hours: 6.75

This course is the second of three courses to prepare the student as a Basic Emergency Medical Technician (EMT). Emphasis is placed on practical material including airway management, patient assessment, CPR, soft tissue injuries, head, chest, and abdominal injuries, and proper use of equipment in the delivery of basic emergency care. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6
- Corequisite Course: EMTA 121 and EMTA 125
- Course Note: \$1098 of the course fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

EMTA 125 EMT Clinical

Credit Hours: 2.25 / Billing Hours: 2.25

The third of three courses to prepare the student as a basic EMT, this course includes hospital and ambulance clinicals. Successful completion of all three basic EMT courses qualifies the student to take the National Registry of Emergency Medical Technicians (NREMT) certification exam and then apply for state licensure as an EMT upon passing exam. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: EMTA 121 and EMTA 122.
- Course Note: \$1463 of the course fee is non-refundable.

EMTA 222 EMS Instructor-Coordinator

Credit Hours: 9 / Billing Hours: 9

The first of two courses for EMS personnel interested in becoming an EMS instructor coordinator. Includes teaching and testing methods, lesson plan development, writing performance objectives, course administration, State of Michigan application process for course approval, and meeting other State-mandated requirements. Student teaching is required. Must be able to provide proof of three (3) years of field experience with a responding Life Support agency within the State of Michigan to qualify for Instructor Coordinator licensure. (Offered Fall, Spring)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: In order to qualify for State of Michigan EMS IC licensure, an individual must be able to provide proof of three (3) years of field experience with a responding Life Support agency within the State of Michigan. Please contact the EMS Program Director at 517-483-1530 to obtain approval to enroll in this course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

EMTA 224 EMS Instr-Coord Student Teach Credit Hours: 2 / Billing Hours: 2

The second of two courses for EMS personnel interested in becoming an EMS Instructor Coordinator (EMS IC), this course provides the opportunity to complete the required student teaching segment of the training in both didactic and laboratory settings. Successful completion of both courses qualifies the student to take the State of Michigan EMS IC licensure exam. (Offered Spring)

- Prerequisite Course: Minimum 3.0 in EMTA 222. Department Approval is required.
- Placement Score: None.
- Course Note: Please contact the EMS Program Director at 517-483-1530 to obtain approval to enroll in this course.

ENGL 098 Integrated Reading Writing I Credit Hours: 4 / Billing Hours: 4

This integrated reading and writing cornerstone course develops contextualized applications of skills and strategies necessary for academic and career success. Areas of focus include critical thinking and research processes, with emphasis on relevancy and transfer to academic courses and career goals. Concurrent enrollment in SOCL120 or PSYC200 or BUSN118 and its corresponding lab is required. After registering for ENGL098, students must register for one of the following pairs of Academic Support labs and classes: NCAS103/SOCL120; NCAS104/PSYC200; or NCAS105/BUSN118. (Add the NCAS lab first to see information on the paired course.) Students are encouraged to meet with an Academic Advisor for further information. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 2 and Writing Level 2.
- Recommended: Concurrent enrollment in ACAD 100.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 099 Integrated Reading Writing II

Credit Hours: 2 / Billing Hours: 2

ENGL 099 is a 2-hour per week, pass/fail class open to students placing just below college-level in reading and/or writing. Students co-enroll in ENGL 099 and a paired section of ENGL 121. ENGL 099 follows the curriculum of the composition class and focuses on building skills in critical reading (text and visual information); writing strategies and processes; revision and editing; research methods; vocabulary expansion; and text navigation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Corequisite Course: ENGL 121.
- Course Note: Students enrolled in ENGL 099 may take a second college-level course in addition to ENGL 121. See an academic advisor for college-level courses that allow concurrent enrollment with ENGL 099.

ENGL 118 Personal Writing

Credit Hours: 3 / Billing Hours: 3

Explores the various forms of personal writing (diaries, journals, letters, personal narratives, and autobiography) through written exercises and selected readings. The student's observations and life experiences are the focus of written assignments. Emphasizes language, style, and tone appropriate to the different forms of personal writing. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: (Reading Level 5 and Writing Level 4) or ENGL 099 concurrently.

ENGL 121 Composition I

Credit Hours: 4 / Billing Hours: 4

Composition I is the study and practice of expository discourse to help students write more effectively. It emphasizes critical thinking, academic source materials, writing processes, content development, structure, style, database research, and documentation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 122 Composition II

Credit Hours: 4 / Billing Hours: 4

Composition II builds upon the writing skills developed in Composition I and emphasizes writing argumentatively, reasoning, and using appropriate documentation. The course develops analytical skills in reading, writing, and research techniques. Students learn about the development, structure, and style of academic research. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (ENGL 121 or ENGL 131) or Placement Scores listed below.
- Placement Score: Reading Level 5 and Writing Level 8.

ENGL 124 Technical Writing

Credit Hours: 3 / Billing Hours: 3

This college-level course focuses on writing across diverse formats for students pursuing technical careers. Through individual and collaborative projects, students will create various technical documents, including instructions, mechanism descriptions, and definitions. The course also covers business letters, persuasive memos, job application materials, and basic research techniques. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Computer and/or keyboarding experience.

ENGL 127 Business Writing

Credit Hours: 3 / Billing Hours: 3

Theory and practice of business communication in a variety of forms, from short communications in print and in non-print channels to longer business proposals and research reports. Emphasizes effective use of graphics such as tables, charts, and illustrations, following accepted design principles. Covers business use of electronic media including websites, social media, and messaging applications. Considers appropriate uses of AI tools. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: Computer and/or keyboarding experience.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 131 Honors Composition I

Credit Hours: 4 / Billing Hours: 4

Honors Composition I is the study and practice of expository discourse to expand students' ability to write effectively. It emphasizes critical thinking, reading academic sources, writing processes, content development, structure, style, database research, and documentation. Students may expect a more rigorous approach to the course. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 7.

ENGL 132 Honors Composition II

Credit Hours: 4 / Billing Hours: 4

This course builds upon the writing skills developed in ENGL 121 to help students write argumentative essays which use logical support and appropriate documentation. The course develops analytical skills in reading, writing, and research techniques. Students learn about the development, structure, and style of academic research. Students may expect a more rigorous approach to the course. (Offered Fall, Spring)

- Prerequisite Course: Minimum 3.5 in (ENGL 121 or ENGL 131).
- Placement Score: Reading Level 5 and Writing Level 8.

ENGL 200 Introduction to Literature

Credit Hours: 3 / Billing Hours: 3

Students will analyze and interpret poetry, drama, and narrative works from a globally and culturally diverse range of historical and literary periods. Close readings of both written texts and visual texts will be encouraged. Through written assignments and discussion, students will offer analytical, argumentative, or researched responses to the readings. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 201 Introduction to Poetry

Credit Hours: 4 / Billing Hours: 4

An introduction to the content, form, style, and technique of poetry; its structural types: metrical, blank, and free verse; its thematic types: lyric, narrative, and dramatic; and its effects or purposes. The course emphasizes poetry written in English but includes English translations of representative poetry from other languages and cultures. (Offered Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 202 World Drama

Credit Hours: 4 / Billing Hours: 4

Introduces drama as a unique genre with its own literary techniques and conventions within a global context. Students will read and interpret representative plays from the ancients to the 21st century, including works from Western and non-Western cultures. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 208 Children's Literature

Credit Hours: 4 / Billing Hours: 4

This course offers a survey of children's literature, from fairy tales to young adult novels. Students will be introduced to a variety of literary genres in classic and contemporary works. Students will experience the literature through writing, discussion, oral or dramatic presentations, and other means suitable to classroom practice. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 211 World Literature I

Credit Hours: 4 / Billing Hours: 4

A selective survey of the literatures of major world cultures reflecting the diversity of the continents of Africa, the Americas, Asia, and Europe to approximately the 17th century. Explores the historical, ethnic, aesthetic, political, economic, and thematic elements of their respective cultures through narrative prose fiction, poetry, and drama. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 212 World Literature II

Credit Hours: 4 / Billing Hours: 4

A survey of the literatures of major cultures reflecting the diversity of the continents of Africa, the Americas, Asia, and Europe from approximately the 17th century through the present. Explores the historical, ethnic, aesthetic, political, economic, and thematic elements of their cultures through narrative prose fiction, poetry, and drama. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 220 Science Fiction

Credit Hours: 4 / Billing Hours: 4

ENGL220 is an introductory course which explores significant issues in science fiction. Novels and/or stories will be the main focus, although works from other media also may be studied. The course's emphasis transcends entertainment to include understanding, interpretation, and analysis as well. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 (formerly WRIT 121) or ENGL 131 (formerly WRIT 131) and ENGL 122.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 240 The Film as Art

Credit Hours: 4 / Billing Hours: 4

This course will introduce film as an art form capable of making perceptive comments on our civilization. Thematic analysis of 12 to 15 films of recognized merit will emphasize the film maker's visual and aural techniques as well as conventions more commonly associated with literature. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 255 American Lit to 1865

Credit Hours: 4 / Billing Hours: 4

Provides a perspective on the evolution of traditional American literature beginning with the writings of the first European explorers and Native American oral tradition. Features selected essays, autobiographical writings, poems, fiction, and drama from the mid-15th century to 1865, including the work of women and ethnic minorities, which have contributed to American thought. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 (formerly WRIT 121) or ENGL 131 (formerly WRIT 131) and ENGL 122.

ENGL 256 American Lit 1865 to Present

Credit Hours: 4 / Billing Hours: 4

Provides a perspective on the further development of traditional American literature from 1865 (the Realism period) to contemporary literature. Features selected essays, autobiographical writings, poems, fiction, and drama from the end of the Civil War to the literature of the late 12th century, including the work of women and ethnic minorities, which have profoundly shaped American literature. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131 and ENGL 122.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 260 African-American Literature

Credit Hours: 4 / Billing Hours: 4

This course introduces the African-American literary tradition as seen in the literature of the Americas, including the Caribbean. Selections explore the black experience in autobiography, essay, fiction, poetry, and drama. Themes of slavery, colonialism, and the Black Diaspora are discussed. Reading selections include the Harlem Renaissance and contemporary texts. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 261 Creative Writing I

Credit Hours: 3 / Billing Hours: 3

This course helps students develop expressive abilities in writing poetry and short stories. Emphasizes narrative modes of the short story, and free verse forms and traditional forms of poetry. Students read and analyze models from masters in fiction and poetry. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (ENGL 121 or ENGL 131) or placement levels noted below.
- Placement Score: Reading Level 5 and Writing Level 8.

ENGL 266 British Lit to 1800

Credit Hours: 4 / Billing Hours: 4

British Literature I surveys the poetry, prose, and drama of the major British writers from Chaucer (14th Century) to the Satirists (18th Century). The works are selected to reflect the attitudes and values of British culture and the perception of the world from a British point of view. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 267 British Lit 1800 to Present

Credit Hours: 4 / Billing Hours: 4

British Literature II surveys the poetry, prose, and drama of the major British writers from the Romantics (19th Century) to the early 21st century. The works are selected to reflect the attitudes and values of British culture and the perception of the world from a British point of view. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 270 Gender and Literature

Credit Hours: 4 / Billing Hours: 4

A study of selected works representing women and LGBTQ writers. Readings are chosen to engage students in thoughtful discussion and to increase understanding of themes, literary theory, issues, and modes of expression of women writers and the LGBTQ communities. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: (ENGL 121 or ENGL 131) and ENGL 122.

ENGL 271 Creative Writing II

Credit Hours: 3 / Billing Hours: 3

Emphasizes improving the ability to write effective poems, short stories, and novellas. Students select their own subjects and receive feedback in a workshop environment. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in ENGL 261.
- Placement Score: Reading Level 5.

ENGL 278 Writing the Novel

Credit Hours: 3 / Billing Hours: 3

This course addresses all aspects of writing a novel. Classroom sessions will emphasize finding a narrative voice, establishing sturdy characters, and developing a workable plot. Students will receive feedback on their fiction in a workshop setting. Publishing information will be provided, but will not be a focus of the course. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ENGL 261 or ENGL 264 or ENGL 260 or ENGL 264.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ENGL 279 Prose Style

Credit Hours: 3 / Billing Hours: 3

An advanced study of non-fictional prose writing. Extensive directed practice helps experienced writers make their own writing clear, precise, direct, and graceful. Workshop sessions include a study of the expectations and choices in various types of writing, and of the relationships among purpose, structure, words, sentences, grammar, punctuation, and style. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (ENGL 121 or ENGL 131).
- Placement Score: Reading Level 5 and Writing Level 8.

ENGL 290 Shakespeare

Credit Hours: 4 / Billing Hours: 4

Students will read, discuss and write about selected comedies, histories, tragedies and romances written by Shakespeare. To better understand how Shakespeare's work continues to influence literature and the arts, the class may also screen film versions of modern re-tellings of Shakespearean plots. (Offered Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131 and ENGL 122.

ENGL 295 Independent Study in English

Credit Hours: 1 to 4 / Billing Hours:

1 to 4

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (Offered Fall, Spring, Summer)

- Prerequisite Course: Department Approval.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ESOL 098 ESL Combined Skills Level 4 Credit Hours: 6 / Billing Hours: 6

Prepares non-native speakers of English for success in college courses. Students will develop reading, writing, academic vocabulary, grammar, and critical thinking skills through a theme-based approach. Emphasis on technology skills for academic work including word processing, MLA/APA format, and course management system. Students are expected to co-enroll in one of the co-requisite courses. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in (ESOL 090 and ESOL 095) or placement scores noted below.
- Placement Score: ESOL 4 or (Reading Level 2 and Writing Level 2).
- Corequisite Course: PSYC 200 or SOCL 120 (excluding online and online hybrid sections).
- Recommended: ACAD 101.
- Course Note: An exit competency of 2.5 awards Reading Level 4 and Writing Level 4 and allows enrollment in ESOL 099, ESL Combined Skills Level 5, and the concurrent enrollment options associated with that course.

ESOL 099 ESL Combined Skills Level 5 Credit Hours: 4 / Billing Hours: 4

Advanced level non-native speakers of English will develop reading, vocabulary, and grammar skills for academic success. Students will use college-level texts to develop reading, writing, and critical skills. Emphasis on technology skills for academic work. Students should meet with an academic advisor to determine which concurrent enrollment options to select. Reading Level 5 and Writing Level 6 granted upon successful completion (exit competency 2.5). (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in ESOL 098 or Placement Scores noted below.
- Placement Score: (Reading Level 4 and Writing Level 4) or (ESOL Level 5).
- Corequisite Course: ENGL 121 (ENGL 124 or ENGL 127 may be substituted with approval from the English Department).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

FIRE 100 Principles Emergency Services Credit Hours: 4 / Billing Hours: 4

This course provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; and fire service nomenclature. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

FIRE 101 MI F.F.T.C. Basic Fire Level I Credit Hours: 10 / Billing Hours: 14

Level I is basic training required for all firefighters in the State of Michigan. Training is certified by the Michigan Fire Fighters Training Council and includes the basics of fire suppression, apparatus operation, life safety, and physical fitness. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Corequisite Course: FIRE 102 and PFFT 119.
- Course Note: \$800 of the Course Fee is non-refundable.

FIRE 102 MI F.F.T.C. Basic Fire Lev II Credit Hours: 6 / Billing Hours: 8

Level II is basic training required for all career firefighters in the State of Michigan. Training is certified by the Michigan Fire Fighter's Training Council and includes advanced fire suppression, aerial operation, life safety, and physical fitness. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Corequisite Course: FIRE 101 and PFFT 119.

FIRE 104 Fire Behavior & Combustion Credit Hours: 3 / Billing Hours: 3

This course explores the theories and fundamentals of how and why fires start and spread. (Offered Spring).

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

FIRE 105 Fire/Hydraulics/Water Supply Credit Hours: 4 / Billing Hours: 4

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

FIRE 110 Fire Prevention Credit Hours: 3 / Billing Hours: 3

This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (FIRE 100 or concurrently) or (FIRE 101 and FIRE 102).
- Placement Score: Reading Level 5 and Writing Level 4.

FIRE 112 Occup Health & Safety/Fire Svc Credit Hours: 4 / Billing Hours: 4

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

FIRE 115 Bldg Construction/Fire Protect Credit Hours: 4 / Billing Hours: 4

This course provides the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [(FIRE 100 or concurrently) or (FIRE 101 and FIRE 102)].
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

FIRE 125 Fire Protection Systems

Credit Hours: 4 / Billing Hours: 4

This course provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (FIRE 105 or FIRE 110).
- Placement Score: Reading Level 5 and Writing Level 4.

FIRE 150 Strategy and Tactics

Credit Hours: 4 / Billing Hours: 4

This course provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground. This course meets the Michigan Office of Fire Fighter Training prerequisites for Fire Officer I and II. (Offered Spring)

- Prerequisite Course: (Minimum 2.0 in FIRE 101 or FIRE 102) or (MI F.F.T.C. Fire Fighter I & II Certification) and Department Approval.
- Placement Score: None.
- Course Note: Department Approval required. Contact the Fire Technology Program at 517- 483-1394.

FIRE 210 Fire Investigation I

Credit Hours: 4 / Billing Hours: 4

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (FIRE 104 or concurrently) or (FIRE 101 and FIRE 102) and Department Approval.
- Placement Score: None.
- Course Note: Contact the Fire Technology Program advisor at 517-483-1394 for department approval.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

FIRE 220 Hazardous Materials/Fire Svc Credit Hours: 4 / Billing Hours: 5

This course explores the concepts and methods of detection, control, and mitigation of hazardous materials incidents. Contains specific elements of NFPA 471, 472 and OSHA CFR 1910.120. This course is designed to train Haz-mat technicians. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in FIRE 104 or (FIRE 101 and FIRE 102) and Haz-Mat Operational Level Training and Department Approval.
- Placement Score: None.
- Course Note: Contact the Fire Technology Program at 517-483-9608 for department approval.

FIRE 250 Fire Administration I Credit Hours: 4 / Billing Hours: 4

This course introduces the student to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis is placed on fire service leadership from the perspective of the company officer. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (FIRE 150 or Michigan Office of Firefighter Training Fire Officer III).
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Students with Michigan Office of Firefighter Training Fire Officer III certification should contact the FIRE program office at 517-483-1394 for enrollment approval.

FIRE 270 Fire Service Career Developmnt Credit Hours: 3 / Billing Hours: 3

This course prepares the student for entry into the fire service workplace. Student will learn new processes of organizational operations and professional development skills. Students will complete 108 hrs of internship with a previously screened agency. The required Associate Degree assessment will be administered in this course. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Recommended: Completion of all other required courses in curriculum.
- Course Note: Department approval required. Contact the Fire Technology Program advisor at 517-483-1394.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GEOG 120 Introduction to Geography

Credit Hours: 3 / Billing Hours: 3

An introductory course designed to provide contemporary geographic ideas and mapping techniques to study the interaction between people and their physical environment. Selected topics include soils, land forms, water, climate, natural vegetation, agriculture, urbanization, demographic patterns and resource utilization. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently) and [Math Level 4 or minimum 2.0 in (Math 105 or Math 106) or P in (NCMA 106 or NCMA 110)].
- Recommended: ENGL 121.

GEOG 200 World Regional Geography

Credit Hours: 4 / Billing Hours: 4

This course describes and analyzes human relationships with the natural and cultural environment and examines the physical and cultural aspects of the major regions of the world. International interdependency is examined to promote global awareness. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

GEOG 202 Geography of North America

Credit Hours: 3 / Billing Hours: 3

A study of the cultural and physical aspects of North America. This course will identify some of the factors that influence the quality of life and give character to each of the various subregions. (Offered Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GEOG 206 Physical Geography

Credit Hours: 4 / Billing Hours: 4

Emphasizes landforms, flora and fauna, weather and climatic elements, land forms, mass wasting, hydrology, and soils. Offers an extensive study of these forces and phenomena through lecture and laboratory exercises. This study notes the environmental and ecological interrelationships between flora and fauna, and between the physical world and human society. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

GEOG 220 Weather, Forecasting & Climate

Credit Hours: 4 / Billing Hours: 4

Introduces the meteorological and climatological sciences. The basics and the limitations of weather forecasting, as well as climatic data, will be examined. Concepts presented include cloud and precipitation types, cyclonic characteristics, computer guidance analysis, and the importance of physical geography in weather and climate. No science background is presumed. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in [MATH 105 or MATH 106] or P in [NCMA 106 or NCMA 110]).

GEOL 221 Physical Geology

Credit Hours: 4 / Billing Hours: 6

This course investigates the dynamic physical earth using a cause-effect theme, and emphasizes relationships of geologic cycles (tectonic/hydrologic) to modifications of earth's crust (e.g., volcanism, mountain building, rivers, glaciers) with introduction to environmental topics and earth resources. Laboratory includes mineral and rock identification, topographic and geologic map interpretation, and plate tectonics exercises. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or (P in NCMA 106 or NCMA 110)].

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GEOL 222 Historical Geology

Credit Hours: 4 / Billing Hours: 6

Plate tectonics is used to integrate crustal and organic evolution in the dynamic global system. Includes methods of geologic inquiry and critical evaluation of evidence. Laboratory stresses interpretation of the rock and fossil records, reconstruction of past ecosystems, geologic maps, and plate tectonics' influence on the environment. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [GEOL 221 or GEOL 230 or ISCI 121].
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

GEOL 230 Environmental Geology

Credit Hours: 4 / Billing Hours: 6

Concepts of physical geology are applied to human interaction with the environment. Geologic resources (e.g., minerals, energy, and water) and hazards (e.g., earthquakes, landslides, and flooding) are explored. Laboratory includes rock and mineral identification, map reading and interpretation, evaluation of land use alternatives, and problem-solving activities related to environmental issues. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

GERO 100 Introduction to Human Aging

Credit Hours: 4 / Billing Hours: 4

This course provides students with a basic orientation to the study of aging. Emphasis is placed on the psychosocial, cultural, and individual issues which impact aging persons, their families, community, and society. Students will learn to identify and utilize resources across the human services network. This course aligns with the Council for Standards in Human Services Education. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GERO 191 Special Topics in Gerontology Credit Hours: 0 / Billing Hours: 0

This course consists of a series of seminars which address current issues in the field of gerontology. The seminars are designed to provide up-to-date information on selected, high-interest subjects concerning human aging. (Offered As Needed)

- Prerequisite Course: Determined by Section.
- Placement Score: None.

GRMN 121 Elementary German I Credit Hours: 4 / Billing Hours: 4

This is the first course of a two-semester sequence in elementary German for students who have no or little knowledge of German. Students are introduced to the basic structures of German, enabling them to develop listening, speaking, reading, and writing skills. Emphasis is on practical vocabulary, essentials of grammar, basic pronunciation, and contemporary culture. This course helps beginner German students develop effective language learning strategies. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

GRMN 122 Elementary German II Credit Hours: 4 / Billing Hours: 4

This is the second course of a two-semester sequence in elementary German. Students are introduced to more advanced structures of German, enabling them to further practice listening, speaking, reading, and writing skills. Emphasis is on practical vocabulary, contemporary culture, and essentials of grammar and pronunciation. This course helps novice German students develop effective language learning strategies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in GRMN 121 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GSCI 100 Intro to Geospatial Tech

Credit Hours: 3 / Billing Hours: 3

This entry level course explores the fundamental concepts underlying all geographic information systems. These concepts will be demonstrated by examining how GIS is used in planning, law enforcement, medicine, asset management, transportation and other fields. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

GSCI 110 Beginning ArcGIS

Credit Hours: 3 / Billing Hours: 5

This course is an introduction in the use of ArcGIS software. ArcGIS is a leading product used in the design of Geographic Information Systems (GIS). Students will learn the basic functionality of this software and its application in real-world scenarios. GIS principles will also be covered. Students will conceptualize, design and present a final project. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

GSCI 120 Advanced ArcGIS

Credit Hours: 3 / Billing Hours: 5

This course will build on the fundamentals learned in GSCI 110. Students will use ArcGIS tools and processing to complete a series of assigned projects. Students will learn modeling and analysis techniques using a variety of vector and raster datasets. Students will conceptualize, design, implement and present a final project. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in GSCI 110 (formerly GRET 110).
- Placement Score: Reading Level 3 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GSCI 150 Drone Flight for Industry Credit Hours: 3 / Billing Hours: 4

This course covers the foundations of unmanned aircraft systems, including history, UAS systems, payloads, classes of UAS systems, applications, mission planning and control and recovery systems. A wide variety of industry-specific uses will be presented. Students will demonstrate knowledge through hands-on drone use. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: AVAU 100.

GSCI 210 Global Positioning Systems Credit Hours: 3 / Billing Hours: 4

This course covers the basic principles necessary to set up, operate, and run a Global Positioning System (GPS) receiving station, as well as collect information with a receiver. Data collection will be incorporated into a computer database program. The information link with Geographic Information Systems (GIS) and the use of GPS in GIS will be demonstrated. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

GSCI 240 Cartography in GIS Credit Hours: 3 / Billing Hours: 4

The basic principles, functions, and origins of maps will be discussed. The student will construct various types of maps. Computer-offered map planning and design along with how to read, print, and design maps will also be covered. (Offered Spring).

- Prerequisite Course: Minimum 2.0 in (GSCI 110 or concurrently (formerly GRET 110)).
- Placement Score: Reading Level 3 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GSCI 241 Remote Sens/AirPhoto Interpret Credit Hours: 3 / Billing Hours: 4

This course will include the development of skills necessary for basic interpretation of aerial photography data, how it is collected, and the ability to analyze maps created from the data collected in this method. The current technology and GIS relationship will be highlighted. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in GSCI 110 (formerly GRET 110).
- Placement Score: Reading Level 3 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

GSCI 250 Drone Map Analysis Credit Hours: 3 / Billing Hours: 4

This class introduces the fundamentals of map data collection with UAS (drones), including concepts, real-world examples, navigation, best practices, data acquisition, mission assessment, data processing, event coverage, and map delivery. Students will demonstrate knowledge through hands-on drone use. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in GSCI 150.
- Placement Score: Reading Level 5 and Math Level 4.

GSCI 260 Automating Workflows in GIS Credit Hours: 3 / Billing Hours: 4

This course will explore a variety of ways to automate workflows in ArcGIS software. In addition to using "batch" functionality in ArcGIS software, the student will be exposed to Model Builder and creating Python scripts. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in GSCI 110 (formerly GRET 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

GSCI 264 Web GIS Credit Hours: 3 / Billing Hours: 4

This course will explore a variety of ways to migrate GIS maps and data to the internet for public viewing and sharing. Technologies include Web maps, HTML, CSS & JavaScript code, Mobile technology, and ArcGIS Online. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in GSCI 110 (formerly GRET 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

GSCI 271 Parcel Mapping

Credit Hours: 3 / Billing Hours: 5

This course will teach students how to interpret and produce ownership parcels based on legal descriptions in a GIS environment. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in GSCI 110 (formerly GRET 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

GSCI 275 GIS Proj Mgmt & Implementation

Credit Hours: 3 / Billing Hours: 4

This is a capstone course designed for students to develop the skills necessary for the design and implementation of GIS. The student will present their project to a client and train the client in the system that they developed. The student will also develop skills in project management and system documentation. (Offered Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

GSCI 290 GIS Internship

Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Geospatial Science students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: Department Approval.

HERT 110 Equipment Introduction

Credit Hours: 5 / Billing Hours: 5

This course is intended to give the student an overall review of legal and work responsibilities of an operator of heavy construction equipment. Safety, inspections, and familiarization of equipment and operation standards for all major pieces of equipment will be stressed. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HERT 120 Heavy Engine Rebuild

Credit Hours: 6 / Billing Hours: 6

Upon completion of this course, the successful student will be able to disassemble, inspect, and reassemble a heavy-duty diesel engine. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

HERT 125 Heavy Equipment Electronics

Credit Hours: 5 / Billing Hours: 5

Upon completion of this course the successful student will be able to diagnose and repair electrical problems on heavy duty equipment. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

HERT 130 Equipment Hydraulics

Credit Hours: 6 / Billing Hours: 6

Upon completion of this course the successful student will be able to diagnose and repair hydraulic problems found typically on heavy duty construction equipment. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

HERT 135 Diesel Fuel Systems

Credit Hours: 4 / Billing Hours: 4

Upon completion of this course, the successful student will be able to diagnose and repair common fuel system failures found on heavy-duty diesel engines. (Offered Summer)

- Prerequisite Course: None.
- Placement Score: None.

HERT 140 Equipment Powertrain

Credit Hours: 5 / Billing Hours: 5

Upon completion of this course, the successful student will be able to identify and inspect and disassemble and assemble and repair powertrain components in heavy duty equipment. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HERT 145 Equipment Service Writing

Credit Hours: 4 / Billing Hours: 4

Upon completion the student will be able to make repair estimates on a disabled piece of construction equipment. (Offered Summer)

- Prerequisite Course: None.
- Placement Score: None.

HERT 160 Equipment HVAC/Cab Controls

Credit Hours: 4 / Billing Hours: 6

This course prepares students for ASE, State of Michigan, and EPA Section 609 certification testing. Topics include theory and operation, maintenance, diagnosis, inspection, and repair of automobile and heavy equipment heating, ventilation, and air conditioning systems. Students will practice the use of special tools and procedures related to refrigerant handling, recovery, recycling, and diagnosis. (Offered Fall)

HERT 210 Heavy Equipment Internship

Credit Hours: 3 / Billing Hours: 3

Students earn credits while employed performing duties associated with the heavy equipment operator or repair technician occupations. The student will work under the general supervision of an experienced equipment operator or repair technician and will learn current industry practices. The program coordinator must approve the training station and working conditions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

HIST 150 African-American History

Credit Hours: 4 / Billing Hours: 4

This course will provide an overview of the African-American experience in the United States, from the arrival of the first Africans in the New World to the present. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HIST 210 Historical Methods and Skills Credit Hours: 4 / Billing Hours: 4

Covers problems of research, writing, philosophy, and interpretation of history, involving a detailed examination of a particular area of American history. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (HIST 211 or HIST 212).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: This course is intended to be the capstone course for History majors.

HIST 211 U.S. History to 1877 Credit Hours: 4 / Billing Hours: 4

A political, economic, social and cultural history of the United States from colonial beginnings to 1877. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 212 U.S. History: 1877 to Present Credit Hours: 4 / Billing Hours: 4

A political, economic, social, and cultural history of the United States from the end of reconstruction to the present. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 214 African History Credit Hours: 4 / Billing Hours: 4

Surveys African history with emphasis on pre-colonial and colonial Africa, nationalism and the struggle for independence, colonialism and economic development/underdevelopment, and cultures and traditions as factors in development. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HIST 215 World History to 1500

Credit Hours: 4 / Billing Hours: 4

This course will trace human civilizations from their origins to 1500 by exploring their cultural, social, religious, economic, and political developments and interactions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 216 World History since 1500

Credit Hours: 4 / Billing Hours: 4

This course will trace the development of the modern world from 1500 by exploring cultural, social, religious, economic, and political developments and interactions that shape modern societies. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 220 Michigan History

Credit Hours: 4 / Billing Hours: 4

A survey of the political, economic, and social development of Michigan from precolonial times to the present. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131.

HIST 235 Modern European History

Credit Hours: 4 / Billing Hours: 4

This course will survey political, social, economic, and cultural developments in Europe from approximately the 17th Century to the present. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HIST 240 Latin American History

Credit Hours: 4 / Billing Hours: 4

A survey of the history and culture of Latin America from pre-Columbian civilizations to the present. This course will examine political, social, and cultural developments in Latin America and assess the role of colonialism, nationalism, and world economic trends in shaping Latin American countries. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 250 History of Modern Asia

Credit Hours: 4 / Billing Hours: 4

This course will survey political, social, and economic developments as well as principal cultural trends in the major civilizations of Asia from approximately the 17th Century to the present. The course will also include an examination of the interactions among Asian societies and between Asia and the West. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HIST 295 Independent Study in History

Credit Hours: 1 to 4 / Billing Hours: 1 to 4

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None; Department approval required.

HONR 151 Honors Colloquy I

Credit Hours: 1 / Billing Hours: 1

Interdisciplinary forum for Honors Program members and other interested students. Includes presentations by experts in such fields as the arts, business, communication, education, humanities, government, mathematics, science, and the social sciences, followed by discussion. Topics concerning international issues, diversity, and technology are often featured. Students write essays reacting to each presentation. (Offered Fall)

- Prerequisite Course: None; Honors Program approval required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HONR 152 Honors Colloquy II

Credit Hours: 1 / Billing Hours: 1

Interdisciplinary forum for Honors Program members and other interested students. Includes presentations by experts in such fields as the arts, business, communication, education, humanities, government, mathematics, science, and the social sciences, followed by discussion. Topics concerning international issues, diversity, and technology are often featured. Students write three substantive research papers. (Offered Fall)

- Prerequisite Course: None; Honors Program approval required.
- Placement Score: None.

HONR 155 Community Service Practicum I

Credit Hours: 1 / Billing Hours: 1

A practicum course for freshman students requiring a minimum of 32 hours of volunteer service with a community agency of the student's choice and attendance at three classroom discussion sessions. Students will develop practical skills and evaluate their service in terms of its relevance to the community and their educational, career, and life goals. (Offered Spring)

- Prerequisite Course: None; Honors Program approval required.
- Placement Score: None.

HONR 156 Community Service Practicum II

Credit Hours: 1 / Billing Hours: 1

A practicum course for sophomore students requiring a minimum of 32 hours of volunteer service with a community agency of the student's choice and attendance at three classroom discussion sessions. Students will develop practical skills and evaluate their service in terms of its relevance to the community and their educational, career, and life goals. (Offered Spring)

- Prerequisite Course: None; Honors Program approval required.
- Placement Score: None.

HSAC 090 ERESA Heating & Air Cond

Credit Hours: 8 / Billing Hours: 0

This course for ERESA students is an introduction into basic electricity, heating, air conditioning, and sheet metal as it pertains to residential HVAC equipment installation and service. Students are enrolled both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HSAH 080 CCRESA PreAllied Hlth Car Prep Credit Hours: 8 / Billing Hours: 0

This course for CCRESA students is designed to present and explore basic concepts of biologic and physical sciences, medical terminology, introductory pathology, and fundamentals of human interactions necessary to pursue training as health care professionals. Students are enrolled in both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: CCRESA Student.

HSAH 090 ERESA Health Occupations I Credit Hours: 8 / Billing Hours: 0

This course for ERESA students provides an overview of the health care industry, including medical ethics, trends in health care, and exploration of career options. It includes instruction in medical terminology as well as an introduction to anatomy and physiology, vital signs measurement, math used for conversions, and universal precautions/blood borne pathogen training. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSAH 092 ERESA Health Occupations II Credit Hours: 8 / Billing Hours: 0

This second year course for ERESA students will teach acute care and rehabilitation knowledge and skills needed to deliver quality basic patient care as a nurse aide/patient care technician. This builds on the long-term care knowledge and skills already learned in the first year course. Students will also be given foundational instruction in medical terminology and will be introduced to the Electronic Health Record and its impact on health-care-related job responsibilities. Hands-on EHR experience is included. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSAM 080 CCRESA Auto Service Credit Hours: 8 / Billing Hours: 0

This course for CRESSA students covers the four National Institute for Automotive Service Excellence requirements for training in brakes, suspension and steering, electrical, and tune-up/drivability. In addition, students will learn basic shop procedures as outlined in AUTO100 and basic training in engine overhaul. Students are enrolled both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: CRESSA Student.

2025-2026 Course Descriptions

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HSAM 090 ERESA Auto Mechanics

Credit Hours: 8 / Billing Hours: 0

This course for ERESA students covers the four National Institute for Automotive Service Excellence requirements for training in brakes, suspension and steering, electrical, and tune-up/drivability. In addition, students will learn basic shop procedures as outlined in AUTO100 and basic training in engine overhaul. Students are enrolled both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSAM 091 ERESA Automotive Technology II

Credit Hours: 8 / Billing Hours: 0

This course for ERESA students covers the four National Institute for Automotive Service Excellence requirements for training in brakes, suspension and steering, electrical, and tune-up/drivability with an emphasis on steering and suspension systems. In addition, students will learn basic shop procedures as outlined in AUTO100 and basic training in engine overhaul. Students are enrolled both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSAT 090 ERESA Architectural Drafting

Credit Hours: 8 / Billing Hours: 0

This ERESA course focuses on residential architecture. Students will learn board drafting techniques, wall section components and building materials, and drafting conventions. Residential design and planning as well as model building methods will be studied and computer aided drafting (CAD) software will be used throughout the year. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSBT 090 ERESA Building Trades

Credit Hours: 6 / Billing Hours: 0

This course teaches the basic skills needed to build a house including reading and interpreting architectural drawings, preparing the building site, introduction to and use of power tools, residential framing, interior carpentry, measuring, and applied mathematics. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HSCJ 090 ERESA Crim Justc/Public Svc I Credit Hours: 8 / Billing Hours: 0

This course is designed for ERESA students to explore the basic concepts and potential career opportunities in Criminal Justice. The course provides instruction in the area of law enforcement, the courts, and corrections. Students are enrolled both fall and spring semesters to meet all course objectives. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSCJ 092 ERESA Crim Just/Law Enforce II Credit Hours: 8 / Billing Hours: 0

This course is for second year ERESA students to expand on the basic concepts and potential career opportunities in Criminal Justice learned in the first year of this program. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSCS 080 CCRESA Computer Support I Credit Hours: 8 / Billing Hours: 0

Security I first-year courses provide early middle college bound high school students with the foundational skills needed to enter into Security II second-year courses. These courses follow the Lansing Community College, Computer Networking Technology Associate in Business Degree. (Offered Fall, Spring)

- Prerequisite Course: CCRESA Student.

H SCT 090 ERESA Construction Technology Credit Hours: 8 / Billing Hours: 0

This program provides an overview of the construction industry by presenting information in several related areas. Students will learn about construction safety, framing and foundation techniques; such as framing wall and floor systems, interior and exterior walls, ceilings, roofs and stairs. This includes material takeoffs and installation practices. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HSDM 090 ERESA Design and Machining Credit Hours: 8 / Billing Hours: 0

This course will provide students with hands-on laboratory projects, career based education, and industrial skill sets needed in design and manufacturing. Career opportunities include Machine Tool Operations, CNC Programming and Operations, and Skilled Maintenance. Students will also have the opportunity to earn First Aid and CPR/AED certifications. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSDM 091 ERESA Advanced Manufacturing Credit Hours: 8 / Billing Hours: 0

This course is the drafting/CAD portion of the ERESA Design and Machining course. Combined with the machining course, HSDM 092, students will perform hands-on laboratory projects, career based education, and industrial skill sets needed in design and manufacturing. Career opportunities include Machine Tool Operations, CNC Programming and Operations, and Skilled Maintenance. Students will also have the opportunity to earn First Aid and CPR/AED certifications. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSDM 092 ERESA Machine Tool Operations Credit Hours: 2 / Billing Hours: 0

This course is the machine tool operations portion of the ERESA Design and Machining course. Combined with the drafting/CAD course, HSDM 091, students will perform hands-on laboratory projects, career based education, and industrial skill sets needed in design and manufacturing. Career opportunities include Machine Tool Operations, CNC Programming and Operations, and Skilled Maintenance. Students will also have the opportunity to earn First Aid and CPR/AED certifications. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HSDT 090 ERESA Industrial Drafting Credit Hours: 8 / Billing Hours: 0

This course for ERESA students is centered around basic concepts of orthographic projection, sketching, lettering techniques and dimensioning. Emphasis will shift to more detailed work with orthographic projection, sections and auxiliary views, and preparation of welding or fabrication type drawings. Students are enrolled both fall and spring semesters. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSKN 090 ERESA Sports Med Foundations Credit Hours: 8 / Billing Hours: 0

This course introduces ERESA students to various careers in the field of Kinesiology, with emphasis on athletic training. Students will learn techniques for assessment, treatment, and rehabilitation of athletic injuries; lifestyles skills that lead to better health and fitness; and will be certified in CPR and First Aid. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSLE 090 ERESA Law Enforcement Credit Hours: 8 / Billing Hours: 0

This course is designed for ERESA students to explore the basic concepts and potential career opportunities in Law Enforcement. The course provides instruction in the areas of law enforcement, such as theory of patrol, community policing, and CPR for health care professionals. Students are enrolled both fall and spring semesters to meet all course objectives for a total of 9.5 credits for the school year. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSMA 090 ERESA Mechatronics/Automation Credit Hours: 8 / Billing Hours: 0

After an introduction to industrial workplace safety, including the ability to earn First Aid and CPR/AED certifications, students will focus on the installation and repair of electrical, hydraulic, pneumatic and digital controls that operate automated mechanical and robotic systems. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HSMT 090 ERESA Manufacturing Tech Credit Hours: 1.5 / Billing Hours: 0

This course for ERESA students is centered around basic concepts of manufacturing technology which are learned through a series of lectures, demonstrations, and manufacturing projects. Students are enrolled during both fall and spring semesters to meet all course objectives for a total of 12 credits for the school year. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSWD 090 ERESA Comp Graphic/Web Dsgn Credit Hours: 8 / Billing Hours: 0

An introduction to manipulation of photographic images and generation of images on the computer using design principles for the creation of effective presentations for the web with rich media content. Students will learn the entire process from concept to design and storyboarding, to structure, preparation, production, and programming. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSWT 090 ERESA Welding/Cutting Credit Hours: 8 / Billing Hours: 0

This course is for ERESA students interested in the industrial trades. Students will learn the basics of oxy-fuel welding and cutting, advanced arc welding, and gas metal arc welding through lectures and hands-on experience. Students are enrolled both fall and spring semesters to meet all course objectives for a total of 12 credits for the school year. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

HSWT 092 ERESA Welding/Cutting II Credit Hours: 8 / Billing Hours: 0

This course is for ERESA students interested in the industrial trades. Students will learn the basics of shielded metal arc welding and gas tungsten arc welding through lectures and hands-on experience. Students are enrolled both fall and spring semesters to meet all course objectives for a total of 12 credits for the school year. (Offered Fall, Spring)

- Prerequisite Course: ERESA Student.

2025-2026 Course Descriptions

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HUMS 140 Art of Being Human

Credit Hours: 4 / Billing Hours: 4

This course analyzes the human experience through the stages of life within historical and global frameworks. With consideration given to creative traditions, topics are chosen to encourage a student's appreciation of common human themes and values across diverse cultures in order to understand what it means to be human, as well as promote self-discovery and personal creativity. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HUMS 160 Mythology

Credit Hours: 4 / Billing Hours: 4

Students will analyze a variety of mythological works, in text and other forms, from multiple regions of the world such as Africa, the Americas, Asia, and Europe. The student will apply knowledge of The Hero's Journey and the basic functions of myth to enhance their appreciation of primary sources, individually and culturally. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131.

HUMS 215 American Cultural Experience

Credit Hours: 4 / Billing Hours: 4

This course will explore the cultural foundations of the United States from the period of exploration to the present. This is an interdisciplinary course which examines central themes of American culture and their representation in history, literature, art, philosophy, and religion. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HUMS 223 The Western World to 1500

Credit Hours: 4 / Billing Hours: 4

The course introduces students to the artistic, intellectual, and technological developments that shaped the western worldview to 1500. The creativity, richness, and diversity of western culture and connections between people and places will be emphasized. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HUMS 224 The Western World since 1500

Credit Hours: 4 / Billing Hours: 4

The course introduces students to the artistic, intellectual, and technological developments that shaped the western worldview from 1500 to present. The creativity, richness, and diversity of western culture and connections between people and places will be emphasized. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

HUSE 100 Introduction to Human Services

Credit Hours: 3 / Billing Hours: 3

This course presents an overview of human services evolution that impact social welfare policies on services provided and the populations served. Emphasis is on community, clients, trends, ethics, and skills used in diverse settings. The approach is generalist in nature. This course aligns with the Council for Standards in Human Services Education. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

HUSE 105 Personal Dynamics/Interviewing

Credit Hours: 4 / Billing Hours: 4

The nature of personal development, knowledge and values are taught. The course integrates diversity issues with the demonstration of the knowledge, skills, and values of the "helping interview" through structured exercises and role playing. This course aligns with the Council for Standards in Human Services Education. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Recommended: Minimum 2.5 in (HUSE 100 or SOWK 101).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HUSE 110 Child Abuse and Neglect

Credit Hours: 3 / Billing Hours: 3

This course reviews the history and scope of child abuse and neglect, including socioeconomic and psychological factors. It explores the world of abnormal rearing, roles of community agencies and disciplines, approaches to treatment and prevention, coordination of cases and services, and legal aspects and the law. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

HUSE 242 The Family: Addiction/Violence

Credit Hours: 3 / Billing Hours: 3

This course provides a holistic conceptual framework to understanding the interplay of substance misuse with violence across the family life cycle. Attention is brought to the many factors of substance misuse and violence. Assessment, intervention, the role of treatment, and broad-spectrum human services are discussed. This course aligns with the Council for Standards in Human Services Education. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.
- Recommended: Minimum 2.5 in [(HUSE 100 or SOWK 101) and HUSE 105].

HUSE 282 Human Services Practicum

Credit Hours: 5 / Billing Hours: 5

This course combines classroom training with field experience in a community agency, with exposure to community structure and the internal working of human services organizations. Emphasis is on the development of professional skills while adhering to professional ethics and standards. This course aligns with the Council for Standards in Human Services Education. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (GERO 100 and HUSE 100 and HUSE 105 and HUSE 110).
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 100 Fundamentals of HVAC

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to the mechanical refrigeration cycle and its individual components. Compressors, evaporators, condensers and metering devices as well as their functions are covered in detail. Exercises in psychrometrics and an introduction to system design are also covered. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 110 Applied Electricity I

Credit Hours: 3 / Billing Hours: 4

An introduction to basic electricity (AC and DC) using both theory and applied study methods. Topics will include electrical components, symbols, basic schematic diagrams, Ohm's Law applied to series and parallel circuits and motor types and usages. In conjunction with lab exercises, meters and their proper usage will be covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 111 Applied Electricity II

Credit Hours: 3 / Billing Hours: 4

The study of motors with an emphasis on theory, troubleshooting and servicing. Motor controls, control circuits, protection devices and discussion of energy conservation as related to motors will be covered in detail. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 100 and HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 113 HVAC/R Piping

Credit Hours: 3 / Billing Hours: 4

This course is designed to teach students about the common types of pipes used in the HVAC/R industry. Topics will include safety, tools and fasteners, common types of pipe, pipe joints, pipe-fittings, and general guidelines for working with pipe and tubing. Hands-on experience with piping is included. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or TECH 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: \$5 of the Course Fee is non-refundable.

HVAC 115 Sheet Metal Fab & Installation

Credit Hours: 2 / Billing Hours: 3

Designed to aid the installer in the skills and techniques for the proper duct sizing, layout, and installation of a residential air distribution system. Topics include sheet metal layout, identification of sheet metal fittings, and their use. Safe and proper use of tools and equipment used in the trade. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 120 Heating I

Credit Hours: 3 / Billing Hours: 4

This course covers basic construction and function of components in residential gas and oil fired furnaces with detail on theory, application, troubleshooting, and servicing standard heating systems. Installation procedures and codes are also covered. Additional equipment studied will include humidifiers, air cleaners and vent dampers. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 100 and HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 130 Air Conditioning I

Credit Hours: 3 / Billing Hours: 4

This course covers the fundamentals and principles of residential air conditioning systems. Students will learn soldering and brazing of tubing, wiring, component testing, evacuation procedures, charging and maintenance of both split systems, as well as small packaged units. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 100 and HVAC 110).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$34 of the Course Fee is non-refundable.

HVAC 140 Residential Energy

Credit Hours: 3 / Billing Hours: 4

The focus of this course will be on the history of traditional energy sources and reasons why government, business, and industry are turning to alternative and renewable energy sources. Topics include how to reduce fossil fuel usage and how to convert from traditional energy sources to alternative and renewable energy sources. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

HVAC 201 Mechanical Code

Credit Hours: 4 / Billing Hours: 4

A fundamental course designed to acquaint the student with the methods and techniques used in field inspection of mechanical systems. The Michigan Mechanical Code and excerpts from the International Fuel Gas Code and Michigan Residential Code will be discussed. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 120 and HVAC 130).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$6 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 220 Heating II

Credit Hours: 3 / Billing Hours: 4

This course covers the fundamentals and principles of electronic ignition systems including troubleshooting and servicing. The major emphasis is placed on high efficiency and condensing furnaces to include sequence of operation, troubleshooting, servicing, and proper installation. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 111 and HVAC 120).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 221 Introduction to Hydronics

Credit Hours: 3 / Billing Hours: 4

Covers hot water and steam residential heating systems, piping and all accessories, safety controls, expansion tanks, zone valves, installation procedures and codes. Students perform testing, troubleshooting, adjusting and servicing of components to insure maximum efficiency. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in HVAC 120.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 230 Air Conditioning II

Credit Hours: 3 / Billing Hours: 4

This course covers advanced air conditioning, light commercial equipment, water cooled units, cooling towers, and the wiring of both control and line voltage circuitry. The latest in test equipment and meters will aid the student in becoming proficient in servicing and maintaining commercial equipment. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (HVAC 111 and HVAC 130).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 231 Heat Pump

Credit Hours: 3 / Billing Hours: 4

This course deals entirely with heat pumps (air-to-air, water-to-air) and their installation, servicing, proper application or heat pump components, and extensive wiring schematics. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in HVAC 130.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 240 Refrigeration I

Credit Hours: 3 / Billing Hours: 4

This course includes domestic refrigeration as applied to refrigerators, freezers and de-humidifiers. Course content includes applications, operation and servicing of sealed systems, electrical and cabinet styles. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (HVAC 230 or concurrently).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 241 Refrigeration II

Credit Hours: 3 / Billing Hours: 4

This course provides instruction in light commercial refrigeration to include low and medium temperature applications as applied to ice machines, walk-ins, reach-ins, and display cases. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in HVAC 240.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$4 of the Course Fee is non-refundable.

HVAC 251 Fund of Direct Digital Control

Credit Hours: 3 / Billing Hours: 4

Basic fundamentals and principles of direct digital controls will be covered through demonstrations of computer basics, control strategies for computer based energy management systems, and installation components according to industry standards. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in HVAC 230 or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note: \$5 of the Course Fee is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

HVAC 290 HVAC Internship

Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Heating, Ventilating, Air Conditioning and Refrigeration students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

IDMS 150 Sonographic Directed Study

Credit Hours: 1 to 5 / Billing Hours: 1 to 8

Provides selection of content from the Diagnostic Medical Sonography curriculum to update or enhance current knowledge and skill for returning students and health care professionals. Through evaluation of previous learning, examinations, self-study, and scheduling into needed lectures, labs and clinical experience, students are advanced placed or readmitted into the Diagnostic Medical Sonography program. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.

IDMS 170 Intro to Ultrasound Knobology

Credit Hours: 2 / Billing Hours: 3

In this course students will learn how to safely operate ultrasound equipment, perform routine machine maintenance, and operate equipment knobology as it relates to image optimization. Scanning, and sonographic positioning and technique, will be explored. Students will learn to use appropriate ergonomics while performing an exam in order to minimize and/or prevent work-related musculoskeletal disorders. (Offered Summer)

- Prerequisite Course: None. Admission to Diagnostic Medical Sonography Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: IDMS 200 and IDMS 270.
- Course Note: \$127 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 200 Sonographic Introduction

Credit Hours: 2 / Billing Hours: 2

This course is an introduction to sonography including equipment history, criteria, limitations of ultrasound, and sonographer ethics. General information is provided regarding patient preparation, history/clinical correlation, and basic nursing care specific to ultrasound. Strong emphasis is placed on terminology and abbreviations most commonly used with ultrasound. (Offered Summer)

- Prerequisite Course: None. Admission to Diagnostic Medical Sonography Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: IDMS 170 and IDMS 270.

IDMS 201 General Sonography I: Abdomen

Credit Hours: 4 / Billing Hours: 4

This course provides the student with cross-sectional anatomy and pathology as it relates to sonographic scanning of the abdomen, abdominal vessels, thyroid, prostate, scrotum, breast, and neurosonology of the neonate. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (IDMS 170 and IDMS 200 and IDMS 270).
- Placement Score: None.
- Corequisite Course: IDMS 202 and IDMS 234 and IDMS 271 and IDMS 280.
- Course Note: \$127 of the course fee is for medical supplies and is non-refundable.

IDMS 202 OB/GYN Sonography I

Credit Hours: 4 / Billing Hours: 4

This course provides the student with cross-sectional anatomy and pathology as it relates to gynecological and obstetrical sonography. Fetal anatomy and appearance will be presented. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (IDMS 170 and IDMS 200 and IDMS 270).
- Placement Score: None.
- Corequisite Course: IDMS 201 and IDMS 234 and IDMS 271 and IDMS 280.
- Course Note: \$127 of the course fee is for medical supplies and is non-refundable.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 234 Sonographic Physics

Credit Hours: 2 / Billing Hours: 2

The student will study the fundamental principles of acoustical physics, how sound is produced and manipulated, and how it reacts in various mediums. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (IDMS 170 and IDMS 200 and IDMS 270).
- Placement Score: None.
- Corequisite Course: IDMS 201 and IDMS 202 and IDMS 271 and IDMS 280.

IDMS 245 Sonographic Instrumentation

Credit Hours: 2 / Billing Hours: 2

The student will be introduced to the mechanics of A-Mode, M-Mode, Doppler, and Real-time ultrasound equipment. Accessory equipment such as the camera, transducer, and cathode ray tube will be presented. Methods of quality assurance will also be presented. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (IDMS 201 and IDMS 202 and IDMS 234 and IDMS 271 and IDMS 280).
- Placement Score: None.
- Corequisite Course: IDMS 265 and IDMS 266 and IDMS 281.

IDMS 250 Vascular Technology I

Credit Hours: 6 / Billing Hours: 6

The student will study the physical principles of venous fluid dynamics and Doppler measurement analysis with its relationship to physiology and pathology, including risk factors, disease processes, correlative tests, and treatments. The student will review the circulatory system and vascular anatomy including, carotid arteries, intracranial blood vessels, upper and lower extremity veins, and penis. RDMS or RT(S) credential or graduated from an accredited ultrasound program and current sonography employment is required. (Offered Fall)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.
- Corequisite Course: IDMS 255.
- Course Note: \$318 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 251 Vascular Technology II

Credit Hours: 6 / Billing Hours: 6

The student will study arterial fluid dynamics and Doppler measurement analysis with its relationship to physiology and pathology, including risk factors, disease processes, correlative tests, and treatments. The student will review vascular anatomy including, upper and lower extremity arteries and abdominal vasculature. Bypass grafts, stents and hemodialysis access will be studied. Quality measurements and safety are reviewed. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in IDMS 250. Program Approval is required.
- Placement Score: None.
- Corequisite Course: IDMS 256.

IDMS 255 Vascular Scan Lab I

Credit Hours: 2.5 / Billing Hours: 4

Students will learn scanning and sonographic positioning as well as imaging techniques in color and spectral Doppler as related to the vascular system. Students will identify normal vascular anatomy including carotid, circle of Willis, upper and lower extremity veins and impotence testing. ARDMS or RT(S) credential or graduated from an accredited ultrasound program and current sonographic employment is required. (Offered Fall)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.
- Corequisite Course: IDMS 250.
- Course Note: \$318 of the course fee is for medical supplies and is non-refundable.

IDMS 256 Vascular Scan Lab II

Credit Hours: 2.5 / Billing Hours: 4

Students will learn scanning and sonographic positioning as well as imaging techniques in color and spectral Doppler, plethysmography and segmental pressures as related to the vascular system. Students will identify normal vascular anatomy including, aorta, IVC, renal vasculature, portal system, upper and lower extremity arteries, and Hemodialysis grafts. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in IDMS 255. Program Approval is required.
- Placement Score: None.
- Corequisite Course: IDMS 251.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 265 General Sonography II

Credit Hours: 4 / Billing Hours: 4

The student will be presented with the identification of and interpretation of anatomy and pathology on sonographic exams as it relates to the abdomen, venous system, and small parts. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (IDMS 201 and IDMS 202 and IDMS 234 and IDMS 271 and IDMS 280).
- Placement Score: None.
- Corequisite Course: IDMS 245 and IDMS 266 and IDMS 281.

IDMS 266 OB/GYN Sonography II

Credit Hours: 4 / Billing Hours: 4

The student will be presented with the identification of and interpretation of anatomy and pathology on sonographic exams as it relates to the obstetric and gynecologic patient. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (IDMS 201 and IDMS 202 and IDMS 234 and IDMS 271 and IDMS 280).
- Placement Score: None.
- Corequisite Course: IDMS 245 and IDMS 265 and IDMS 281.

IDMS 270 Sonographic Positioning I

Credit Hours: 2.5 / Billing Hours: 4

Sonography students continue to learn scanning and sonographic positioning as well as imaging techniques. Normal anatomy of the abdomen including liver, biliary tree, kidneys, spleen, and pancreas will be explored. The great vessels will be introduced including the aorta, celiac axis, superior mesenteric artery, inferior vena cava and related arteries. (Offered Summer)

- Prerequisite Course: None. Admission to Diagnostic Medical Sonography Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: IDMS 170 and IDMS 200.
- Course Note: \$127 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 271 Sonographic Positioning II

Credit Hours: 1.5 / Billing Hours: 2

Sonography students continue to practice sonographic positioning and scanning techniques. Normal anatomy of the abdomen including abdominal vasculature, liver and portal vein, urinary tract, biliary system, pancreas, spleen, and adrenal glands will be explored. Transabdominal and transvaginal pelvis, thyroid, scrotum, gastrointestinal tract, soft tissue, musculoskeletal, breast, non-cardiac chest, and gravida uterus will also be explored. Students will learn indications and sonographic technique for ultrasound guided interventional procedures. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (IDMS 170 and IDMS 200 and IDMS 270).
- Placement Score: None.
- Corequisite Course: IDMS 201 and IDMS 202 and IDMS 234 and IDMS 280.
- Course Note: \$127 of the course fee is for medical supplies and is non-refundable.

IDMS 280 Clinical Experience I

Credit Hours: 6 / Billing Hours: 6

First course in a three-semester sequence of clinical application in diagnostic medical sonography. Clinical experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the student's progress. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (IDMS 170 and IDMS 200 and IDMS 270).
- Placement Score: None.
- Corequisite Course: IDMS 201 and IDMS 202 and IDMS 234 and IDMS 271.
- Course Note: \$100 of the course fee is non-refundable.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IDMS 281 Clinical Experience II

Credit Hours: 8 / Billing Hours: 8

Building on material presented in IDMS280, this is the second course in a three-semester sequence in diagnostic medical sonography. Clinical experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the student's progress. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (IDMS 201 and IDMS 202 and IDMS 234 and IDMS 271 and IDMS 280).
- Placement Score: None.
- Corequisite Course: IDMS 245 and IDMS 265 and IDMS 266.

IDMS 282 Clinical Experience III

Credit Hours: 7.5 / Billing Hours: 7.5

Based on material presented in IDMS281, this is the last course in a three-semester sequence of clinical application in diagnostic medical sonography. Clinical experience is provided under the direct supervision of an ARDMS Registered Sonographer. Clinical competencies will be given corresponding to completed didactic work. Performance standards are used to evaluate the student's progress. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (IDMS 245 and IDMS 265 and IDMS 266 and IDMS 281).
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

INSU 105 Intro to Risk Management

Credit Hours: 3 / Billing Hours: 3

Students will gain a broader understanding of risk, focusing on managing risk data, modeling outcomes, and applying new risk technologies. Students will develop the communication skills to collaborate when making risk-related decisions. This course will be a useful tool as students prepare for the AINS 101 and CPCU 500 national exams administered by The Institutes. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).
- Course Note:
 - o 1) Prepares students for the AINS 101 and CPCU 500 national exam administered by The Institutes.
 - o 2) Students who achieve a minimum grade of 3.0 may waive the CPCU 500 national exam.

INSU 110 Personal Insurance

Credit Hours: 3 / Billing Hours: 3

This course will help students strengthen critical written and oral communication and analytical skills, and identify sources for gaining personal insurance information, including home, auto, life, health and retirement options. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1) Students who achieve a grade of 3.0 or above may waive the CPCU 555 national exam.
 - o 2) Prepares students for the AINS 102 national exam.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

INSU 125 Commercial Insurance

Credit Hours: 3 / Billing Hours: 3

This course will help the student strengthen critical communication and analytical skills, and identify sources for gaining commercial insurance information, including coverage for buildings, property, workers compensation, auto, etc. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1) Students who achieve a grade of 3.0 or above may wave the CPCU 551 national exam.
 - o 2) Prepares students for the AINS 103 national exam.

INSU 175 Intro to Financial Advising

Credit Hours: 3 / Billing Hours: 3

This course will help students develop analytical skills in financial advising for a career the insurance industry. This course will cover all areas including estate planning, life insurance, annuities, retirement planning, and health insurance options. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Course Note: Students who achieve a grade of 3.0 or above may wave the CPCU 556 national exam.

INSU 250 Claims and Underwriting

Credit Hours: 3 / Billing Hours: 3

This course is an overview of the principles and practices of claims and commercial underwriting. (Offered Spring)

- Prerequisite Course: Minimum 3.0 in (INSU 105 or INSU 125).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1) Students who achieve a grade of 3.0 or above may wave the AU 60 national exam.
 - o 2) Prepares students for the AIC 300 CPCU exam.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

INSU 285 Insurance Agency Operations Credit Hours: 3 / Billing Hours: 3

This course is an overview of agency operations including financial, marketing, management, IT, regulations, leadership, time management, understanding risk control, and strategic operations. This course will be a useful tool as students prepare for the CPCU 520 national exam, administered by The Institutes. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

INSU 295 Insurance Internship Credit Hours: 3 / Billing Hours: 3

This course is an opportunity for students to work with Lansing area insurance companies as a team member to explore various careers within the industry. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (INSU 105 or INSU 110 or INSU 125).
- Placement Score: Reading Level 5 and Writing Level 6.

IRXT 105 Introduction to Imaging Credit Hours: 2 / Billing Hours: 2

History of the radiologic technologist profession. Fundamentals of the role of the radiographer in the health care industry including professional conduct and responsibilities of the radiographer. Ethical and legal issues in specific to radiography. Exploration of principles, practices and policies of radiology departments, modalities, and health care organizations. Basic medical terminology specific to the field of radiography. Introduction to technical factors that affect radiographic exposure. This course includes an on-site orientation to the assigned clinical setting. (Offered Fall)

- Prerequisite Course: None. Admission to the Radiologic Technology Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 5 or minimum 2.5 in (MATH 119 or STAT 170 or STAT 215)].
- Course Note: \$85 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IRXT 111 Radiographic Positioning I

Credit Hours: 6 / Billing Hours: 6

Student radiographers are introduced to radiographic positioning of the upper and lower extremity, chest, abdomen, bony thorax, pelvis, and spine. Associated topographic, skeletal, chest, and abdominal anatomy is studied. A laboratory experience is provided to evaluate the student skills in performing each position/projection. (Offered Fall)

- Prerequisite Course: None. Admission to Radiologic Technology Program is required.
- Placement Score: None.
- Course Note: \$5 of the course fee is for medical supplies and is non-refundable.

IRXT 112 Radiographic Positioning II

Credit Hours: 6 / Billing Hours: 6

A continued study of routine radiographic positioning with the addition of fluoroscopic procedures. Included are studies of the skull, G.I. tract, G.U. tract, myelography, and bronchography. In addition, various contrast media are studied. Laboratory experiences are provided to evaluate student skills in performing selected position/projections. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.
- Course Note: \$5 of the course fee is for medical supplies and is non-refundable.

IRXT 116 Patient Care in Radiography

Credit Hours: 2 / Billing Hours: 2.5

Concepts of optimal care for the physical and psychological needs of the patient and family. Fundamental procedures for routine patient identification, patient education, communication, standard precautions, aseptic techniques, infection control, venipuncture, and vital signs. Emergency patient care procedures are studied. Examination of the impact of a patient's beliefs and culture on health care. CPR/BLS certification included. (Offered Fall)

- Prerequisite Course: None. Admission to the Radiologic Technology Program is required.
- Placement Score: None.
- Course Note: \$40 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IRXT 123 Radiographic Independent Study Credit Hours: 1 to 4 / Billing Hours: 1 to 7

Provides selection of content from the Radiologic Technology curriculum to update or enhance current knowledge and skill for returning students and health care professionals. Through evaluation of previous learning, examinations, self-study, and scheduling into needed lectures and labs students are advanced placed or readmitted into the Radiologic Technology Program. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: None.

IRXT 140 Image Analysis Credit Hours: 2 / Billing Hours: 2

Analysis of radiographic images. Included are the importance of optimal imaging standards, discussions of problem-solving techniques for image evaluation and the factors that can affect image quality. Discussion of implications of patient care and patient dose. Knowledge of procedures and characteristics of image characteristics. Emphasis on appropriate corrective action. Actual images will be included for analysis. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

IRXT 144 Digital Imaging and Exposure Credit Hours: 2 / Billing Hours: 2

Understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. Principles of digital system quality assurance and maintenance are presented. Examination of technical factors that govern radiographic exposure and affect the image production process. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IRXT 170 Clinical Practice I

Credit Hours: 4 / Billing Hours: 4

This course is the first in a two-semester sequence of clinical application in radiography designed with required and specific patient care and clinical radiographic examination competencies under direct supervision of an ARRT Registered Technologist. Students must obtain a minimum number of competencies to progress to the next semester. Performance standards are used to evaluate student achievement. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

IRXT 172 Clinical Practice II

Credit Hours: 6 / Billing Hours: 6

Second in a two-semester sequence of clinical application in radiography. Clinical experience is provided under the direct supervision of an ARRT Registered Technologist. A minimum number of clinical competencies must be obtained corresponding to completed didactic work to be eligible to continue in the program. Performance standards are used to evaluate the student's achievement. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

IRXT 200 Intro to Radiologic Pathology

Credit Hours: 2 / Billing Hours: 2

Emphasizes how disease processes are diagnosed radiographically and the relationship of the radiographic appearance of the disease to its anatomic, physiologic, and pathologic characteristics. The etiology, treatment, and resolution of each disease is discussed with an attempt to relate more recent advances in these areas. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IRXT 214 Comprehensive Experience I Credit Hours: 6 / Billing Hours: 6

First in a two-semester sequence of advanced clinical application in radiography. Clinical experience is provided under the direct/indirect supervision of an ARRT Registered Technologist. A minimum number of clinical competencies must be obtained corresponding to appropriate levels of supervision to be eligible to progress to the next semester. Students must demonstrate maintenance of previously obtained competencies. Performance standards are used to evaluate the student's achievement. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

IRXT 215 Comprehensive Experience II Credit Hours: 6 / Billing Hours: 6

Final semester in advanced clinical application in radiography. Clinical experience is provided under the direct/indirect supervision of an ARRT Registered Technologist. Students are expected to demonstrate maintenance of previously obtained competencies. Students meeting established criteria may be eligible to participate in observing additional modalities. All mandatory/elective competencies must be completed this semester to be ARRT Registry eligible. Performance standards are used to evaluate the student's achievement. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.

IRXT 222 Radiobiology and Protection Credit Hours: 2 / Billing Hours: 2

This course focuses on the rationale for good radiation hygiene and methods used to protect the patient and technologist from radiation exposure. Current theories and events regarding the physiological effects of ionizing radiation are also explored. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

IRXT 224 Radiologic Physics

Credit Hours: 4 / Billing Hours: 4

Basic physical principles, measurement, structure of matter, electrostatics and magnetism, are related to the radiologic process. A study of elementary electricity and the operation of the x-ray circuit are presented. Examination of design and function of radiographic, fluoroscopic and mobile equipment. Finally, advanced topics regarding the formation of radiation and care of the X-ray tube are studied. Discussion of quality assurance and quality control. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.
- Course Note: This course includes on-site proctored exam(s). Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

IRXT 280 Radiologic Tech Board Review

Credit Hours: 2 / Billing Hours: 2

This course is designed to help prepare students for the American Registry of Radiologic Technologist (ARRT) national board exam. The course is divided into weekly assignments covering material that was presented throughout the previous year's radiography courses. Students are required to successfully pass a mock registry exam to complete this course. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in all previous required IRXT courses.
- Placement Score: None.
- Course Note: \$200 of the course fee is non-refundable.

IRXT 295 Radiologic Tech Special Topics

Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

This course offers students the opportunity to learn new radiologic technology career skills and knowledge. Specific up-to-date content will vary with each topic presented and will be related to radiologic technology careers. (Offered As Needed)

- Prerequisite Course: Determined by Section.
- Placement Score: Determined by Section.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

ISCI 121 Physical Science Concepts

Credit Hours: 4 / Billing Hours: 6

A science course focusing on matter and energy, including topics from physics, chemistry, and earth science. Science processes, methods, and reasoning skills are emphasized throughout. Experiments and lab activities are integrated with lecture topics. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

ISCI 131 Integrated Physical Science

Credit Hours: 4 / Billing Hours: 6

A general education course designed to provide students with a basic understanding of the methods and applications of physical science. Topics include discussion about what science is, basic chemistry, energy and motion, the hydrologic cycle, earth science, and weather. Critical thinking and problem-solving skills are applied to environmental issues. Laboratory activities illustrate and amplify lecture topics. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and [Math Level 4 or Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

ISCI 245 S.T.E.M. Workplace Practices

Credit Hours: 4 / Billing Hours: 6

This course will introduce students to vital concepts encountered by employees working in advanced technology regulated environments within the emerging global economy. This covers four main areas of working in an advanced technology environment: process control, safety and security, legal and ethical issues, and essential math and science skills. The lab work emphasizes systems thinking and continuous improvement concepts discussed during lecture. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (MATH 119 or STAT 170) or Math Level indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.
- Recommended: A science laboratory course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

JAPN 121 Elementary Japanese I

Credit Hours: 4 / Billing Hours: 4

This is the first course of a two-semester sequence in elementary Japanese. Students gain basic knowledge of communication skills through speaking, reading, writing, and listening comprehension. Practical communication is emphasized. Aspects of Japanese culture are introduced through multi-media presentations. Hiragana and Katakana syllabaries and basic Kanji are introduced. (Offered Fall, Spring and Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

JAPN 122 Elementary Japanese II

Credit Hours: 4 / Billing Hours: 4

Second course of a two-semester sequence in elementary Japanese. Students receive more practice in Japanese for practical communication. Develops speaking, reading, writing, and listening skills. Previously acquired knowledge and skills are refined and ability to communicate in Japanese is increased. Emphasis is on practical communication. Additional Kanji are introduced. Aspects of Japanese culture are introduced through multi-media presentations. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.0 in JAPN 121 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

JAPN 201 Intermediate Japanese I

Credit Hours: 4 / Billing Hours: 4

First course of a two-semester sequence in intermediate Japanese. Includes introduction of more advanced grammar, vocabulary building, composition, group discussions, and more information on Japanese culture and everyday life. Emphasis is on practical communication in Japanese. Additional Kanji are introduced. Various aspects of Japanese culture are introduced through multi-media presentations. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in JAPN 122 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

JAPN 202 Intermediate Japanese II

Credit Hours: 4 / Billing Hours: 4

Continuation of JAPN 201. Includes more advanced grammar, intensive vocabulary building, writing composition, reading contemporary materials, discussions, and student presentations on Japanese language or culture. Additional Kanji are introduced. Natural and practical communication is emphasized. Various aspects of Japanese culture are introduced through multi-media presentations. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in JAPN 201 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

JRNL 151 Newswriting and Reporting

Credit Hours: 3 / Billing Hours: 3

Introduction to and practice in writing news stories. Students learn news terminology, style, objectivity, attribution, accuracy, and copy-editing skills. Basic news gathering and reporting tactics are presented and practiced. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ENGL 121 or ENGL 131.
- Placement Score: Reading Level 5 and Writing Level 8.
- Recommended: Computer and/or keyboarding experience.

JRNL 254 Opinion Writing

Credit Hours: 3 / Billing Hours: 3

A course in how to write effective editorials. Students analyze content, structure and style of editorial models, learn methods of finding subjects, learn methods of research, and write editorials and articles on important issues. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (JRNL 151 or ENGL 121 or ENGL 131).
- Placement Score: Reading Level 5 and Writing Level 8.
- Recommended: Computer and/or keyboarding experience.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LABR 200 Intro to Labor Relations

Credit Hours: 3 / Billing Hours: 3

This course surveys both historical and legal frameworks of the labor movement. Major labor laws, causes and goals of the labor movement, and union structure and behavior will be discussed. Students will explore both labor and management approaches to solving employment disputes. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

LABR 204 Employment Law for Managers

Credit Hours: 3 / Billing Hours: 3

This course provides an introduction and overview to the principles and application of laws affecting the workplace, not including traditional labor relations law. Areas of law covered include discrimination, wage-hour, unemployment benefits, personnel records, and common law issues relating to discharge and other matters. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

LEAD 110 Leadership Development I

Credit Hours: 2 / Billing Hours: 2

LEAD 110 will help students develop leadership skills through study, observation, and application. Assists students in increasing their understanding of themselves, and the theories and techniques of leadership. Course topics include developing a personal leadership philosophy, leading by serving, understanding ethical leadership, articulating a vision, team building and leading with goals. (Offered Fall)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEAD 111 Leadership Development II

Credit Hours: 2 / Billing Hours: 2

LEAD 111 will help students develop leadership skills through study, observation, and application. Assists students in increasing their understanding of themselves, and the theories and techniques of leadership. Course topics include making decisions as a leader, guiding others through conflict, realizing change, and empowering others as a servant leader. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in LEAD 110.
- Placement Score: None.

LEGL 110 Editing Legal Documents

Credit Hours: 2 / Billing Hours: 2

This course is an in-depth exposure to common legal documents and vocabulary students will encounter in any law office. Students will learn to read, analyze, proofread and edit legal documents applying sound legal and English fundamentals. Standard reference materials and their importance with respect to legal documents will be emphasized. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 115 Introduction to Legal Studies

Credit Hours: 3 / Billing Hours: 3

Introduction to the paralegal's role in the legal system, including essential skills used in the litigation process and law practice. Introduces student to legal terminology, legal analysis, procedural, and substantive law. Students will produce a resume and cover letter and prepare for and practice mock employment interviewing skills and practice mock client interviews modeling legal professional ethical standards. Surveys paralegal employment and regulation. 2.0 minimum required to continue program. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 125 Legal Research and Writing I

Credit Hours: 3 / Billing Hours: 3

Students will explore the methods and resources for researching federal and Michigan law. Through practical assignments, students will utilize proper legal citation, conduct research using online legal databases and apply legal principles from court opinions to real-world fact patterns. Additionally, students will develop skills in summarizing court decisions and drafting legal documents. Learning methods include reading, discussion, lecture, and writing. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ENGL 121.
- Placement Score: (Reading Level 5 and Writing Level 6) or Post-Bachelor student enrolled in 0744 program.

LEGL 160 Critical Thinking in Law

Credit Hours: 3 / Billing Hours: 3

This course strongly emphasizes the "learn by doing" approach, specifically by utilizing group dynamics. The panorama of thinking skills, particularly those relevant in law and criminal justice, will be examined and practiced. Innovative evaluation skills, both personal and group, are a regular part of each session. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

LEGL 207 eDiscovery

Credit Hours: 3 / Billing Hours: 3

This course will explore the rapidly developing role of software in the area of legal data, eDiscovery, and information governance. An in-depth look at the role of software in the litigation lifecycle from data collection and document review to production and presentation at a trial will be taken. The course will explore the technology used in a litigation support department and by litigation teams in the acquisition of data and eDiscovery processing. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in CITF110 or Post Bachelor Student enrolled in 0744 Program.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 211 Tort Law

Credit Hours: 3 / Billing Hours: 3

Covers principles of negligence, intentional torts, and strict liability. Emphasizes the role of the paralegal in dealing with these areas of law in actual practice situations. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in LEGL 115 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 212 Litigation Procedures

Credit Hours: 3 / Billing Hours: 3

Provides in-depth study of pre-trial, trial, and post-trial practice and procedure. Emphasizes Michigan and federal rules of court. Detailed study of drafting pleadings, discovery procedures, and case preparation for trial and appeal. Also covers evidentiary rules as they relate to trial practice and preparation. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (LEGL 115 and LEGL 211).
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 215 Business Law-Basic Principles

Credit Hours: 3 / Billing Hours: 3

Introduction to the legal system, its purpose, and the fundamental principles of various areas of the law. Course content includes sources of law, court procedures, contracts, torts, crimes, and constitutional rights. Taught in traditional classroom style or online. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 216 Commercial Transactions

Credit Hours: 3 / Billing Hours: 3

An in-depth analysis of the Uniform Commercial Code allows students to explore the law of sales, commercial paper, secured transactions, banking, insurance, and debtor-creditor rights. Taught in traditional classroom style or online. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (LEGL 115 or LEGL 215).
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 217 Business Organizations

Credit Hours: 3 / Billing Hours: 3

Introduces basic business organizations, including agency law, partnerships, sole proprietorships, and corporations. Additionally, the course will delve into government regulation of business, real estate, wills, trusts, and estates. Taught in traditional classroom style or online. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (LEGL 115 or LEGL 215) or concurrently.
- Placement Score: None.

LEGL 218 Litigation Specialties

Credit Hours: 3 / Billing Hours: 3

Covers several specialty areas of law, for example personal injury, professional malpractice, products liability, workers' compensation, and no-fault auto insurance. Emphasizes role of paralegal in these practice areas, including drafting of legal instruments. (Offered as needed)

- Prerequisite Course: Minimum 2.0 in LEGL 115 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 219 Adv Busn Law for Acct Majors

Credit Hours: 4 / Billing Hours: 4

This course is intended for students majoring in accounting who have a goal of becoming a Certified Public Accountant (CPA). This course covers the law of sales; commercial paper; security devices; debtor-creditor relations; bankruptcy; insurance; agency; partnership; corporations; wills, trusts and estates; employment regulation; real property; and accountant's liability. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in LEGL 215.
- Placement Score: None.
- Recommended: Accounting background.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 222 Probate Law and Procedure Credit Hours: 3 / Billing Hours: 3

Probate process will be addressed in detail, from commencement of proceedings through closing the estate of a decedent. Other topics will include wills, trusts, and related topics. Emphasis is on the part played by the paralegal in preparation of documents and other probate practice tasks. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (LEGL 115 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 223 Domestic Relations Credit Hours: 3 / Billing Hours: 3

Covers marriage, divorce, separation, annulment, paternity proceedings, custody, support, property division, and other areas of domestic relations law. Emphasis will be on the paralegal's role in dealing with clients and applying appropriate statutes, case law, and court rules as part of a domestic law practice. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (LEGL 115 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 225 Legal Research and Writing II Credit Hours: 3 / Billing Hours: 3

Reviews principles of legal research, analysis, and writing. Introduces student to computer-assisted legal research (e.g. Lexis or Westlaw). Student will draft legal memoranda and a trial court brief based on extensive research assignments in Michigan publications. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in LEGL 125.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 228 Computer Appl for the Law Ofc Credit Hours: 3 / Billing Hours: 3

This course focuses on computer technology as it is applied within the law office, including the use of computers to perform paralegal functions in litigation support, legal research using tools including Lexis or Westlaw, communication and case management applications, such as calendar and docket control. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (CITF 110 or CITA 119) or Post Bachelor Student enrolled in 0744 program.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 229 Immigration Law

Credit Hours: 3 / Billing Hours: 3

This course covers fundamental principles and practical application of Immigration Law with emphasis on the paralegal's role. Topics will include sources, history, and future of immigration law, visas, citizenship, refugee/asylum, removal and defenses, impact on other areas of law, and working with clients from cultures around the world. (Offered as needed)

- Prerequisite Course: Minimum 2.0 in LEGL 115 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.

LEGL 251 Legal Studies Independent Study Credit Hours: 1 to 3 / Billing Hours: 1 to 3

This course provides a study of specific current or classic legal topics and issues that affect legal assistants/paralegals. Students, with the assistance of the instructor, select a topic, then develop and execute a plan to independently examine the topic by reviewing written materials and/or interviewing people in the field. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Department approval to enroll in these CRNs can be requested by calling the Paralegal/Legal Assistant Program office at 517-483-5228.

LEGL 270 Paralegal Certification Prep

Credit Hours: 3 / Billing Hours: 3

This course provides a review and preparation for testing for the Certified Paralegal exam administered by the National Association of Legal Assistants. Students will be evaluated on interviewing skills, modeling ethical behavior, legal terminology, substantive and procedural law, research, judgement, and analysis. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (LEGL 212) and [(LEGL 217 and LEGL 225 and LEGL 228) or concurrently].
- Placement Score: Reading Level 5 and Writing Level 6 and Department Approval.
- Course Note: Department approval to enroll in this class can be requested by calling the Paralegal/Legal Assistant Program office at 517-483-5228.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

LEGL 280 Legal Studies Internship

Credit Hours: 3 / Billing Hours: 3

Students will experience the paralegal career by working in a supervised capacity. Placements include private law firms, governmental law offices, courts, corporations, and other law-related settings. Requirements include at least 160 hours in the workplace, weekly reports, periodic meetings, and performance evaluations by on-site supervisor. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: Department Approval requires a completed application submitted to the Public Service Careers Office. Students must bring their driver's license with the application. Worksite placements must be discussed and assigned by instructor. Students will be notified by phone upon acceptance into the course of the class meeting time arranged by the instructor.

MATH 095 Support for MATH115

Credit Hours: 2 / Billing Hours: 2

This course provides support for students enrolled in MATH 115. Topics include: algebraic expressions, powers, roots, ratio and proportion, linear and quadratic equations, evaluating and solving formulas, graphing, perimeter, area, and volume calculations. Emphasis on problem-solving for technical applications. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (MATH 105 or MATH 106) or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and (BSM1/CPT Arithmetic 85-120 or BSM2/CPT Algebra 40-76 or ACM1/Accuplacer Arithmetic 250-300 or ACM2/QRAS 225-259) or (HS GPA 2.5-2.99 within 10 years)].
- Corequisite Course: MATH 115.
- Course Note:
 - o 1) This co-support course, MATH 095, must be taken during the same semester as the college level course (MATH 115). Contact your instructor to discuss options if either course is dropped during the semester or if a passing grade is not achieved at the end of the semester.
 - o 2) A graphing calculator from the TI-83/84 series is required for coursework.
 - o 3) Class participation is strongly recommended; participation is a significant and important part of the course to enable success in MATH 115.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 097 Support for MATH119 or STAT170

Credit Hours: 2 / Billing Hours: 2

This course provides support for students enrolled in Math 119 or Stat 170. Topics include numeracy, mathematical thinking and investigations, proportional reasoning, algebraic modeling, basic geometry and statistical concepts. Graphing calculator and real-life applications are integrated throughout the course. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: [Reading Level 5 and Writing Level 4 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)] and (BSM2/CPT Algebra 50-76 or ACM2/QRAS 225-259 or A02/ACT Math 15-19 or S12/SAT Math 400-510 or PS12/PSAT Math 400-510 or [HS GPA 2.5-2.99 within 10 years]).
- Corequisite Course: MATH 119 or STAT 170.
- Course Note:
 - o 1) This co-support course, MATH 097, must be taken during the same semester as the college level course (MATH 119 or STAT 170). Contact your instructor to discuss options if either course is dropped during the semester or if a passing grade is not achieved at the end of the semester.
 - o 2) A graphing calculator is required; a TI-83/84 series calculator is highly recommended.
 - o 3) Class participation is strongly recommended; participation is a significant and important part of the course to enable success in the college-level course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 098 Support for MATH120

Credit Hours: 2 / Billing Hours: 2

This course provides embedded academic support for students enrolled in MATH 120. Topics include a study of relations and functions, inequalities, algebraic expressions and equations, with a special emphasis on linear and quadratic expressions and equations, and any additional topics, as needed, to support the content of MATH120. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (MATH 105 or MATH 106) or a Math Placement Score indicated below or Department Approval.
- Placement Score: (Reading Level 5 and Writing Level 4) or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) and (BSM2/CPT Algebra 77-120 or BSM7/Accuplacer CLM 45-54 or A02/ACT Math 15-21 or S12/SAT Math 400-540 or PS12/PSAT Math 400-540 or ACM2/QRAS 241-300 or ACM3/AAF 235-244 or [HS GPA 2.5-2.99 w/in 10 years]).
- Corequisite Course: MATH 120.
- Course Note:
 - o 1) This co-support course, MATH 098, must be taken during the same semester as MATH 120. Contact your instructor to discuss options if either course is dropped during the semester or if a passing grade is not achieved at the end of the semester.
 - o 2) A graphing calculator from the TI-83/84 series is required for course work. TI-84 Plus CE is recommended.
 - o 3) Class participation is strongly recommended; participation is a significant and important part of the course to enable success in MATH 120.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 115 Technical Mathematics

Credit Hours: 4 / Billing Hours: 4

Applied geometry and trigonometry for students in technical programs. Congruence, similarity, polygons, circle geometry, trigonometry with right and oblique triangles (including laws of sines, cosines and cotangents), surface area, volume, 3D rectangular and 2D polar coordinate systems, and introduction to vectors. Emphasizes problem solving for technical applications. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MATH 114 or (MATH 095 concurrently) or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and (BSM2/CPT Algebra 77-120 or ACM2/QRAS 260-300 or ACM3/AAF 220-244 or A02/ACT Math 20-21 or S12/SAT Math 520-540 or PS12/PSAT Math 520-540 or HSGPA 3.0 w/in 10 years or GEDM/GED Math 165 w/in 10 years).
- Course Note: Graphing calculator required; TI-83/84 series calculator highly recommended.

MATH 119 Math - Applications for Living

Credit Hours: 4 / Billing Hours: 4

This is a quantitative reasoning course that covers concepts in measurement, geometry, finance, algebra, statistics, and probability, with a focus on applications for real life. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 105 or MATH 106 or MATH 107) or P in (NCMA 106 or NCMA 110) or (MATH 097 concurrently) or a Math Placement Score indicated below.
- Placement Score: (Reading Level 5 and Writing Level 4) or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) and (BSM2/CPT Algebra 77-120 or ACM2/QRAS 260-300 or ACM3/AAF 220-244 or A02/ACT Math 20-21 or S12/SAT Math 520-540 or PS12/PSAT Math 520-540 or HS GPA 3.0 w/in 10 years or GEDM/GED Math 165 w/in 10 years).
- Course Note:
 - o 1). Graphing calculator required; TI-83/84 series calculator highly recommended.
 - o 2). This course includes on-site proctored exam(s) for all online and/or hybrid sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 120 College Algebra

Credit Hours: 4 / Billing Hours: 4

A course in algebra that studies families of functions and their graphs, with an emphasis on applications in finance, business, and life, social, and physical sciences. Topics include relations and functions; properties and graphs of linear, quadratic, polynomial, rational, exponential, and logarithmic functions; algebra of functions; solving equations and inequalities; systems of linear equations; and sequences and series. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 109 w/in 10 years) or P in (NCMA 110 within 10 years) or MATH 098 concurrently or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 4 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) and (ACM3/AAF 245-259 or A02/ACT Math 22-25 or S12/SAT Math 550-610 or PS12/PSAT Math 550-610 or HS GPA 3.0 or GEDM/GED Math 165) within 10 years.
- Course Note:
 - o 1). A graphing calculator from the TI-83/84 family is required for course work. TI-84 Plus CE is recommended.
 - o 2). This course includes on-site proctored exam(s) for all online and/or hybrid sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 126 Precalculus

Credit Hours: 5 / Billing Hours: 5

This is a five-credit course on college algebra and trigonometry. Topics include the definition and concept of functions; equations and inequalities; properties and graphs of polynomial, rational, absolute value, exponential, logarithmic, trigonometric, and inverse trigonometric functions; conic sections; and systems of non-linear equations. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 120 within 2 years or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and (ACM3/AAF 260-300 or A02/ACT Math 26-28 or S12/SAT Math 620-680 or PS12/PSAT Math 620-680) within 2 years or Department Approval.
- Course Note:
 - o 1). A graphing calculator from the TI-83/84 series is required for course work.
 - o 2). WebAssign access is required for homework.
 - o 3). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

MATH 141 Calculus with Applications

Credit Hours: 4 / Billing Hours: 4

This course provides an introduction to calculus with an emphasis on applications in business, economic, social/life sciences and other fields not requiring an extensive study of calculus. Topics include functions, derivatives, related rates, growth and decay, differential equations, elasticity of demand, the definite integral and applications. (Mathematics, Physical Science, Computer Science, and Engineering majors should take MATH151.) (Offered Fall)

- Prerequisite Course: Minimum 2.5 in MATH 120 within 2 years or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and (ACM3/AAF 260-300 or A02/ACT Math 26-28 or S12/SAT Math 620-680 or PS12/PSAT Math 620-680) within 2 years.
- Course Note:
 - o 1). A graphing calculator from the TI-83/84 Series is required for course work.
 - o 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 151 Calculus I

Credit Hours: 4 / Billing Hours: 4

This is the first course in a three-semester calculus sequence. Topics include limits, continuity, parametric curves, derivatives of algebraic, trigonometric, exponential, and logarithmic functions, implicit differentiation, linear approximation and differentials, L'Hospital's rule, Riemann sums, integration using the Fundamental Theorem of Calculus and the substitution rule. Applications of differential and integral calculus to problems in math, natural, and social sciences are presented. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 126 within 2 years or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and (A02/ACT Math 29-36 or S12/SAT Math 690-800 or PS12/PSAT Math 690-800 or [ACM3/AAF 270-300 and TRIG/LCC Trigonometry Test 3]) within 2 years.
- Course Note:
 - o 1). A graphing calculator from the TI-83/84 series is required for course work; TI-89 may be used.
 - o 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

MATH 152 Calculus II

Credit Hours: 4 / Billing Hours: 4

This is the second course in a three-semester calculus sequence. Topics include integral calculus and its applications to real world problems, infinite sequences and series, tests for convergence of series, Taylor and Maclaurin series, power series, representations of functions, 3D-rectangular coordinate system, polar coordinates, vectors and vector operations, and equations of lines and planes in 3D space. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 151 within 2 years.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1). A graphing calculator from the TI-83/84 series is required for course work; TI-89 or TI-Nspire (CAS) may be used.
 - o 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 201 Math for Elementary Teachers I

Credit Hours: 4 / Billing Hours: 4

The first course in a two-course sequence for prospective elementary teachers. Topics include real number systems and their properties, sets, logic, and number theory. Emphasis is on active engagement in mathematical investigation to develop problem-solving skills and conceptual knowledge essential for teaching elementary school mathematics. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in MATH 109 within 2 years or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and (ACM3/AAF 245-259 or A02/ACT Math 22-25 or S12/SAT Math 550-610 or PS12/PSAT Math 550-610) within 2 years.
- Course Note: A graphing calculator from the TI-83/84 series is required for course work.

MATH 253 Calculus III

Credit Hours: 4 / Billing Hours: 4

This is the last course in a three-semester calculus sequence that covers multivariable calculus and vector analysis. Topics include vector algebra, curves and surfaces in 3D-space, cylindrical and spherical coordinate systems, vector-valued functions, partial derivatives and gradients, multiple integrals, vector fields, line integrals, and surface integrals, including the theorems of Green and Stokes, and Divergence Theorem. Applications for all these topics are presented. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 152 within 2 years.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - 1). A graphing calculator from the TI-83/84 series is required for course work; TI-89 or TI-Nspire (CAS) may be used.
 - 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MATH 254 Intro to Differential Equation

Credit Hours: 4 / Billing Hours: 4

An introduction to ordinary differential equations. Topics include separable, exact, linear, and Bernoulli equations, direction fields, higher order linear equations, undetermined coefficients, variation of parameters, series solutions, Laplace transforms, systems of differential equations, systems of first order linear equations, nonlinear equations and stability, numerical methods, Fourier series, and separable PDEs. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MATH 253 within 2 years.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1). Graphing calculator required; TI-89 or TI-Nspire is recommended.
 - o 2). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

MATH 260 Linear Algebra

Credit Hours: 4 / Billing Hours: 4

This introduction to linear algebra includes the study of systems of linear equations, vector equations, linear independence, determinants, matrix algebra, vector spaces and subspaces, dimension of a vector space, rank, linear transformations, eigenvalues and eigenvectors, diagonalization, inner products, orthogonal sets, and the Gram-Schmidt process, with applications. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MATH 152 within 2 years.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note:
 - o 1) This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).
 - o 2) Graphing calculator required. TI-84 or TI-Nspire is recommended.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 110 Intro MA Med Terms & Pathology Credit Hours: 5 / Billing Hours: 5

Students will be introduced to medical terminology, basic human anatomy, and disease conditions which are essential for a career in medical assisting.

- Prerequisite Course: None. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: MEDA 135 and MEDA 156.

MEDA 110A Intro MA Med Terms & Patho I Credit Hours: 2.5 / Billing Hours: 2.5

This course, the first of two modules, will introduce students to essential medical terminology, covering the basic human anatomy, and disease conditions encountered in a career in medical assisting. Emphasis in this module is on the musculoskeletal, respiratory, cardiovascular, blood, lymph, and immune systems. (Offered Fall)

- Prerequisite Course: None. Program approval is required.
- Placement Scores: Reading Level 5 and Writing Level 4.
- Co-requisite Courses: MEDA 135 and MEDA 156A.
- Course Note: The Medical Assistant program is a yearlong, cohort program that begins every Fall semester; students will complete the program in three consecutive semesters, Fall 2025 through Summer 2026. Seats in this program are limited. To enroll, students must be 18 years of age or older by the start of classes and must submit a Medical Assistant program application along with required supporting documentation. Online applications are accepted March 1 thru June 25th and are available in the Medical Assistant section on the [HHS Advising Guide](http://www.lcc.edu/hhs/advising-guides.html) (www.lcc.edu/hhs/advising-guides.html). Applicants are encouraged to apply early as enrollment is on a first-come, first-served basis. Once admitted to the program, students will be required to complete an [ICHAT](#) background check (there is a fee for this service, instructions provided upon acceptance to program) and attend a mandatory program orientation, which typically occurs mid-July. Contact Keiston Wirick or Mary Pacitto at 517-483-1410 for more information.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 110B Intro MA Med Terms & Patho II

Credit Hours: 2.5 / Billing Hours: 2.5

This course, the second of two modules, will introduce students to essential medical terminology, covering the basic human anatomy, and disease conditions encountered in a career in medical assisting. Emphasis in this module is on the integumentary, digestive, urinary, reproductive, endocrine, nervous, and special senses systems. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in MEDA 110A or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 126 MA Administrative Skills

Credit Hours: 5 / Billing Hours: 6

In this course the student will learn about: the EHR (electronic health record), how to apply effective and professional communication and interpersonal skills, demonstrate cultural awareness, maintain inventory, perform billing and collections, process insurance, schedule patients, adapt care to different life stages, and help the patient navigate the healthcare system.

- Prerequisite Course: Minimum 2.5 in (MEDA 110 and MEDA 135 and MEDA 156).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 145 and MEDA 166 and NCHE 102.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 126A MA Administrative Skills I

Credit Hours: 2.5 / Billing Hours: 3

In this course, the first of two modules, the student will learn how to apply effective and professional communication and interpersonal skills, demonstrate cultural awareness, maintain inventory, schedule patients, adapt care to different life stages, and help the patient navigate the healthcare system. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MEDA 110A and MEDA 110B and MEDA 135 and MEDA 156A and MEDA 156B).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 145 and MEDA 166 and NCHE 102.
- Course Note: Minimum age of 18 required to enroll in this course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 126B MA Administrative Skills II

Credit Hours: 2.5 / Billing Hours: 3

This course is the second of two modules providing students with the skills needed to apply effective and professional communication and interpersonal skills, demonstrate cultural awareness, adapt care to different life stages, and help the patient navigate the healthcare system. Students will learn about the EHR (electronic health record), perform billing and collections, and process insurance. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MEDA 110A and MEDA 110B and MEDA 135 and MEDA 156A and MEDA 156B) and (MEDA 126A or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 145 and MEDA 166 and NCHE 102.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 135 MA Pharmacology & Med Math

Credit Hours: 2 / Billing Hours: 2

In this class the student medical assistant will learn about the different classifications of drugs and the most commonly used medications, how to calculate dosages for proper administration, the parts of a prescription, common abbreviations, and how to use proper drug references. (Offered Fall)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 110A and MEDA 156A.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 145 Legal & Ethical Concepts

Credit Hours: 2 / Billing Hours: 2

The student medical assistant will learn about documentation guidelines, federal and state guidelines when releasing medical records and information, following established policies when initiating or terminating treatment, scope of practice, Code of Ethics compliance, HIPAA, ADA Amendments Act, and local health laws. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MEDA 110A and MEDA 110B and MEDA 135 and MEDA 156A and MEDA 156B).
- Placement Score: None.
- Corequisite Course: MEDA 126A and MEDA 126B and MEDA 166 and NCHE 102.
- Course Note: Minimum age of 18 required to enroll in this course.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 156 MA Clinical Procedures I

Credit Hours: 7 / Billing Hours: 11

Within a clinical classroom, the student medical assistant will obtain vital signs, patient history, assist with general and specialty exams, learn how to administer medications, and learn how to educate patients. Students will also learn to apply medical terminology to the different specialties for each body system.

- Prerequisite Course: None. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: MEDA 110 and MEDA 135.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 156A MA Clinical Procedures IA

Credit Hours: 3.5 / Billing Hours: 5.5

Within a clinical classroom, the student medical assistant will obtain vital signs and patient history, assist with general exams, respond to emergencies, and learn how to educate patients. Students will also learn to apply medical terminology and learn about diagnostic and treatment modalities for each body system. Emphasis is on cardiac, respiratory, orthopedic, and radiologic procedures. (Offered Fall)

- Prerequisite Course: None. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 110A and MEDA 135.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 156B MA Clinical Procedures IB

Credit Hours: 3.5 / Billing Hours: 5.5

Within a clinical classroom, the student medical assistant will obtain vital signs and patient history, assist with general exams, learn how to administer medications, and learn how to educate patients. Students will also learn to apply medical terminology and learn about diagnostic and treatment modalities for each body system. Emphasis is on OB-GYN, neurological, gastroenterology, dermatology, pediatric, geriatric, and eye and ear procedures. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (MEDA 135 or concurrently) and (MEDA 156A or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 110B.
- Course Note: Minimum age of 18 required to enroll in this course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 166 MA Clinical Procedures II

Credit Hours: 5 / Billing Hours: 7

The student medical assistant will learn how to obtain laboratory specimens, perform point-of-care testing, apply outpatient treatments, and assist with clinical procedures typically performed in a clinical office setting. Obtaining and processing blood and body fluid specimens are a large portion of this course. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MEDA 110A and MEDA 110B and MEDA 135 and MEDA 156A and MEDA 156B).
- Placement Score: None.
- Corequisite Course: MEDA 126A and MEDA 126B and MEDA 145 and NCHE 102.
- Course Note: Minimum age of 18 required to enroll in this course.

MEDA 175 MA Certification Review

Credit Hours: 3 / Billing Hours: 3

In this capstone course, the student will review both clinical and administrative skills to prepare to take the Registered Medical Assistant (RMA) examination through the American Medical Technologist (AMT) certification agency. The student will also learn professional employability skills, including resume writing and effective interviewing techniques. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MEDA courses.
- Placement Score: None.
- Corequisite Course: MEDA 177A and MEDA 177B.

MEDA 177 MA Practicum Immersion

Credit Hours: 3 / Billing Hours: 3

The practicum requires placement at an ambulatory care facility. Students will be exposed to administrative and clinical skills required of the profession and will perform activities under the direct supervision of a preceptor. A minimum of 160 clock hours is required.

- Prerequisite Course: Minimum 2.5 in (MEDA 126 and MEDA 145 and MEDA 166).
- Placement Score: None. Program approval is required.
- Corequisite Course: MEDA 175.
- Course Note: Minimum age of 18 required to enroll in this course. Students will be charged a \$50 fee for ACEMAPP required documentation.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MEDA 177A MA Practicum Immersion I

Credit Hours: 1 / Billing Hours: 1

The first of two practicum modules that requires placement at an ambulatory care facility. Students will be exposed to administrative and clinical skills required of the profession and will perform activities under the direct supervision of a preceptor. A minimum of 54 clock hours is required for this module. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (MEDA 126A and MEDA 126B and MEDA 145 and MEDA 166).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 175 and MEDA 177B.
- Course Note: Minimum age of 18 required to enroll in this course. Students will be charged a \$50 fee for ACEMAPP required documentation.

MEDA 177B MA Practicum Immersion II

Credit Hours: 2 / Billing Hours: 2

The second of two practicum modules that requires placement at an ambulatory care facility. Students will be exposed to administrative and clinical skills required of the profession and will perform activities under the direct supervision of a preceptor. A minimum of 106 clock hours is required for this module. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (MEDA 126A and MEDA 126B and MEDA 145 and MEDA 166) and (MEDA 177A or concurrently).
- Placement Score: Reading Level 5 and Writing Level 4 and Math Level 4.
- Corequisite Course: MEDA 175 and MEDA 177A.
- Course Note: Minimum age of 18 required to enroll in this course.

METD 100 Basic Mechanical Drafting

Credit Hours: 3 / Billing Hours: 4

This course teaches the fundamental concepts of drafting and design using sketches and manual drafting skills. The student will learn the basics of orthographic projection, lettering, sketching, dimensioning techniques, and much more. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METD 105 PC Applications for Technology Credit Hours: 3 / Billing Hours: 4

This course provides an introduction to PCs as used in a technical-industrial setting. Basic computer hardware knowledge and simple file management practices are taught. Students will use Windows, the Internet, word processing, spreadsheet, presentation, and database software. Students will also be introduced to CAD software. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

METD 110 Mechanical CAD Drafting I Credit Hours: 4 / Billing Hours: 6

This is an introductory course in mechanical drafting and computer aided drafting using CAD software. Instruction includes orthographic projection, auxiliary views, secondary auxiliary view projections, sections, dimensioning techniques, and printing. Students will complete a series of drawings on the computer to demonstrate understanding of the concepts presented. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in METD 100 or Mechanical Drafting Placement Test 80%.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METD 111 Mechanical CAD Drafting II Credit Hours: 4 / Billing Hours: 6

This course covers advanced drafting and design techniques needed to project successive auxiliary views from various orthographic views. Layout and design concepts will also be stressed. Students will use computers with CAD software to complete practical design projects in problem solving and creativity applicable to the automotive, industrial, and/or aerospace industries. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in METD 110.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METD 130 Geometric Dimension/Tolerance Credit Hours: 4 / Billing Hours: 6

This course covers the principles and methods of dimensioning and tolerancing for specific design requirements on engineering drawings. Uniform practices for stating and interpreting these requirements will be stressed. Content includes use and understanding of the symbolic method of specification relating to tolerances being applied using ASME/ANSI M14.5Y 1994 standards. (Offered as needed)

- Prerequisite Course: Minimum 2.0 in METD 100 or Mechanical Drafting Placement Test 80%.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METD 150 Industrial Blueprint Reading Credit Hours: 3 / Billing Hours: 3

This course covers basic concepts in orthographic projection, with emphasis on interpretation of engineering drawings. Areas also covered include measurement systems, technical sketching, dimensioning, sectional and auxiliary views, and tolerancing. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: METD 100.

METD 170 Special Topics/Eng & Design Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

This course offers students the opportunity to learn new or advanced skills in Computer Aided Drafting and Design and other related topics. Specific content may vary with each offering and will be related to the Computer Aided Drafting and Design Program and profession. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METD 220 Basic Unigraphics/NX

Credit Hours: 4 / Billing Hours: 6

This is the first of a two-semester course sequence that covers the fundamentals of the Unigraphics System of interactive design. This course covers comprehensive CAD concepts of 2-D and 3-D construction and basic solid modeling, as well as some of the concepts of drafting. Prior CAD system experience is required. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in METD 110.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

METD 221 Advanced Unigraphics/NX

Credit Hours: 4 / Billing Hours: 6

This is the second of a two-semester course sequence that covers the design and construction of sophisticated solid models of complex assemblies and components, and the production of dimensioned and toleranced engineering drawings of those components. Advanced concepts of Unigraphics modeling will be discussed and utilized in class projects. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in METD 220.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 5.

METD 240 Basic NX Machining

Credit Hours: 4 / Billing Hours: 5

Basic NX Machining will use or modify existing models or boundaries to stage parts or wave-linked geometry for fixed axis or multi axis mill turning operations. Specific NX machining strategies will be purposed and output for target machine tool types for application of post processing. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METD 220 and METM 108).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.
- Course Note: This course was formerly METM 240.

METD 250 Detailing Assembly Drawings

Credit Hours: 4 / Billing Hours: 6

This course builds on previous courses giving students an advanced understanding of assemblies and the details pulled from CAD assemblies. Students will also be able to identify how machine processes and various types of dies and components are used to create parts and assemblies. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in METD 130.
- Course Note: Reading Level 4 and Writing Level 4 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METD 265 Basic CAD FEA Simulation

Credit Hours: 4 / Billing Hours: 6

NX finite element analysis method is used in conjunction with the application of mesh to analyze part design performance due to the impact. Performance behavior is executed on the product based overall strength, resistance to buckling, and thermal response to external force. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METD 221 or METD 250).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

METD 295 Engineering/Design Project Lab

Credit Hours: 1 to 4 / Billing Hours: 1 to 4

This course is intended to give advanced drafting and design students an opportunity, through mutual agreement between student and instructor, to complete project(s) on one of several available CAD systems. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

METM 100 Manufacturing Processes

Credit Hours: 3 / Billing Hours: 4.5

This course provides students with a comprehensive study of the materials, concepts, and processes used in modern manufacturing which is augmented by field trips to local manufacturing plants. This course is designed for those who are pursuing careers in manufacturing design, engineering, and supervision. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 4.
- Recommended: MATH 105 or MATH 106 or P in (NCMA 106 or NCMA 110) or Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METM 108 Machine Tool Operations

Credit Hours: 4 / Billing Hours: 6

This course will inform students of the machine tool principles used in industry. Safety, measurement, and procedures will be used to complete projects. A working knowledge of hand and machine tools is achieved through a series of lectures, demonstrations, and hands-on projects. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

METM 112 Introduction to CNC Machining

Credit Hours: 4 / Billing Hours: 6

Introduces computerized numerical control equipment with hands-on programming, set up, and operation of the CNC Lathe and Mill. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in METM 108 within 2 years.
- Placement Score: Reading Level 3 and Writing Level 4 and Math Level 4.

METM 150 Advanced CNC Machining

Credit Hours: 4 / Billing Hours: 6

In this course, students will set up and operate CNC lathes, CNC mills, and grinding equipment, write CNC programs, identify and select tooling, and perform precision measurements. Topics covered include safety and preventive maintenance, the eight basic functions of a CNC machine control, and high speed machining processes. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [METM 110 or (METM 112 within 2 years)].
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

METM 170 Special Topics/Precision Mach **Hours: 0.25 to 11**

Credit Hours: 0.25 to 8 / Billing

This course offers students the opportunity to learn new or advanced skills in Precision Machining and Maintenance and other related topics. Specific content may vary with each offering but will be related to the Precision Manufacturing Technology Program and profession. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METM 171 Special Topics/Machining Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

This course offers students the opportunity to learn new or advanced skills in Precision Machining and Maintenance and other related topics. Specific content may vary with each offering but will be related to the Precision Manufacturing Technology Program and profession. This course will be offered on a Pass/Fail basis. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section.

METM 190 Metallurgy and Heat Treatment Credit Hours: 4 / Billing Hours: 6

This course introduces the science of metallurgy, a domain of materials science that studies the physical and chemical behavior of metallic elements. Students acquire a working knowledge of the properties, uses and heat treat processes of commonly used metals and alloys. Topics are explored through lecture and laboratory analysis. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Recommended: High School Chemistry or CHEM 125.

METM 195 Quality/Metrology/Inspection Credit Hours: 4 / Billing Hours: 6

This pre-engineering course introduces the science of precision measurement, focusing on accuracy and application as well as problem solving as it relates to dimensional metrology. Topics include measurement processes and feasibility, industry standards, and operation of the Coordinate Measuring Machine. Quality systems, calibration systems, and Statistical Process Control are also explored. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (METM 108 or METM 110).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METM 220 Basic Mastercam

Credit Hours: 4 / Billing Hours: 6

Mastercam is a powerful graphics based programming software for CNC machine tools. Mastercam software is designed to generate CNC programs from mechanical CAD drawings. Students will use Mastercam to solve CNC programming problems in both 2-D and 3-D environments and run selected programs on CNC equipment. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (METM 108 or METM 110).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4.

METM 221 Advanced Mastercam

Credit Hours: 4 / Billing Hours: 6

The student will learn the advanced CNC programming functions of the MasterCAM software. The successful student will be able to design, program, and run 3-dimensional CNC programs and check the toolpath using the MasterCAM verify toolpath function. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in METM 220.
- Placement Score: Reading Level 3 and Writing Level 4 and Math Level 4.

METM 295 Precision Machine Project Lab

Credit Hours: 1 to 4 / Billing Hours: 1 to 8

An advanced course for students wishing to do in-depth work in the machine shop area or to develop trade-entry skills. Students select projects compatible with their individual fields of work. (Approval may be given to take this course twice for a maximum of eight credits.) (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

METS 110 Mechanical Power Transmissions

Credit Hours: 4 / Billing Hours: 6

This course will teach theory and industrial application of power transmission gear drive systems, chain drive systems, belt drive systems, couplings, clutch and brake and more. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently and minimum 2.0 in METM 108.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METS 115 Intro to Mechanical Systems

Credit Hours: 4 / Billing Hours: 6

This course introduces the student to the theory and selection criteria for mechanical power systems. Topics discussed include pneumatics, hydraulics, and mechanical drives. Lectures include fundamentals and real life applications in designing basic systems. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METS 120 Industrial Pneumatics

Credit Hours: 4 / Billing Hours: 6

An introduction to the concepts, principles, and components of industrial pneumatic systems, this course covers gas laws, theory of air compression, regulators, filters, valves, actuators, electro-pneumatic and pneumatic circuits with emphasis on pneumatic diagrams and circuit design. Lectures, labs and troubleshooting give students a hands-on approach in the field of pneumatics. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METS 125 Intro to Hydraulics/Pneumatics

Credit Hours: 4 / Billing Hours: 6

This course introduces the student to the theory of basic hydraulic and pneumatic principles as they relate to automated systems. Topics include application of components, causes of malfunctions in the system, and system troubleshooting strategies. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METS 130 Industrial Hydraulics

Credit Hours: 4 / Billing Hours: 6

Industrial hydraulics introduces the theory of fluid power and circuits covering pumps, pressure valves, flow valves, cylinders, filters and motors, etc., as they are used in industry today. This will be done with lectures and labs related to each of the respective components. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102 or concurrently).
- Placement Score: Reading Level 4 and Writing Level 4 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METS 140 Rigging

Credit Hours: 3 / Billing Hours: 4.5

This course covers uses and strengths of ropes, chains, block and tackles, and the construction and erection of gin poles, with a study of rope knots used in rigging and cranes. Safe working strength of slings, hooks, sheaves, ropes and chains, and the use of personal safety equipment will be covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$20 of the Course Fee is non-refundable.

METS 145 Automated Systems

Credit Hours: 3 / Billing Hours: 4.5

This course introduces students to automated system basics, including electrical components, mechanical components, electrical drives, pneumatic and hydraulic control circuits, and programmable logic controllers (PLCs). The student will be able to troubleshoot a complex mechatronics system and correct malfunctions. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [ELTE 109 and (ELTE 130 or ELTE 131 or concurrently) and (METS 125 or concurrently)].
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METS 160 Introduction to Robotics

Credit Hours: 3 / Billing Hours: 4.5

The purpose of this course is to introduce students to industrial robot fundamentals with regards to safety, types, applications, programming, operation, and troubleshooting. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or ELTE 102 or DCTM 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METS 161 Intro to FANUC Robotics

Credit Hours: 3 / Billing Hours: 4.5

The purpose of this course is to introduce students to industrial robot fundamentals with regards to safety, types, applications, programming, operation, and troubleshooting. This course will focus on FANUC robots but ABB robots will also be introduced. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 In TECH 102 or concurrently.
- Placement Score: Reading Level 3, Writing Level 4, and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

METS 162 Intro to ABB Robotics

Credit Hours: 3 / Billing Hours: 4.5

The purpose of this course is to introduce students to industrial robot fundamentals with regards to safety, types, applications, programming, operation, and troubleshooting. This course will focus on ABB robots but FANUC robots will also be introduced. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in TECH 102 or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and MATH Level 3 or [minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110)].

METS 170 Special Topics/Mechanical Sys Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

This course offers students the opportunity to learn new or advanced skills in Manufacturing and other related topics. Specific content may vary with each offering but will be related to the Manufacturing Program and profession. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

METS 210 Lubrication and Bearings

Credit Hours: 4 / Billing Hours: 6

This course covers lubricant applications as applied to industrial equipment including the type, frequency, and amount needed. Participants will troubleshoot centralized lubrication systems, learn to set up an oil management program, remove and install bearings, and identify bearing failures. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

METS 250 Gen. Prevent/Predictive Maint

Credit Hours: 3 / Billing Hours: 4.5

This course will introduce the learner to the various types and styles of predictive and preventive maintenance components used in industrial applications. It focuses on aspects of machine maintenance. Activities include regular and routine cleaning, lubricating, testing, checking for wear and tear, and eventually replacing components to avoid breakdown. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (METS 102 or ELTE 102 or DCTM 102 or HVAC 102 or TECH 102 or WELD 102) or concurrently and minimum 2.0 in METS 145.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: \$100 of the Course Fee is non-refundable.

METS 260 Advanced Robotics Capstone

Credit Hours: 3 / Billing Hours: 4.5

The purpose of this class is to build on the students' basic robotic knowledge, to include robot vision systems, robot safety zones and interlocks, and advanced programming. This will all culminate with a capstone project that will incorporate electrical, mechanical, fluid power, robotic, and PLC systems. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in [(METM 108 and METS 125 and METS 160) and (ELTE 260 and METS 145 or concurrently)].
- Placement Score: Reading Level 3 and Writing Level 4 and Math Level 4.
- Course Note: \$20 of the Course Fee is non-refundable.



2025-2026 Course Descriptions

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METS 290 Manufacturing Internship Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides Manufacturing students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Recommended: 2.5 GPA or greater.

METS 295 Mechanical Systems Project Lab Credit Hours: 1 to 4 / Billing Hours: 1 to 4

An advanced course for students wishing to do in-depth work in the mechanical systems/machine maintenance area or to develop trade-entry skills. Students select projects compatible with their individual fields of work. (Approval may be given to take this course twice for a maximum of eight credits.) (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

MGMT 150 Managing Customer Relations Credit Hours: 3 / Billing Hours: 3

This course is designed to help customer service workers and managers explore the dynamics of customer service and customer relations. The course includes strategies for providing for customer's needs, behavioral skills and knowledge for effective customer service, verbal and non-verbal skills for effective customer communication, and techniques for measuring success. Focus is on the dynamics of building successful relationships. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).



2025-2026 Course Descriptions

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MGMT 200 Creative Thinking for Business

Credit Hours: 3 / Billing Hours: 3

This course takes an experiential approach to helping students understand and explore elements of the creative process. It is designed to develop skills, eliminate barriers, and allow students to apply thinking skills to business situations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).
- Recommended: Have taken two or more BUSN or MGMT courses, or have business experience.

MGMT 201 Time Management for Business

Credit Hours: 1 / Billing Hours: 1

Learners will discover basic principles and techniques of time management that can be applied to both personal and professional situations. Students will learn how to manage time using tools and techniques to maximize productivity. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 202 Managing Difficult People

Credit Hours: 1 / Billing Hours: 1

This course provides practical strategies to overcome negativity and difficult behaviors of people in the workplace. This includes defining types of difficult employees, understanding an intervention model, and addressing difficult behaviors. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

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MGMT 223 Supervisory Skills

Credit Hours: 3 / Billing Hours: 3

This course presents supervisory principles and practices for first-line supervisors. Emphasis is on developing interpersonal and first line supervisory skills. Managerial functions are introduced, along with policies, decision-making, and the responsibilities of supervisors for overall work performance and employee development and evaluation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 224 Human Resource Management

Credit Hours: 3 / Billing Hours: 3

This course examines the role of human resources management and its contribution to the total organizational effort. Emphasis will be placed on the evolution of human resource management, recruitment and selection, improving performance, compensation and incentives, safety and health, employee-management relations, and current legislation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 225 Principles of Mgmt/Leadership

Credit Hours: 3 / Billing Hours: 3

Designed to reflect the dynamics of our changing world, this course covers such topics as management/leadership functions/processes, quality, ethics, global issues and the challenges and opportunities of diversity. Emphasis is on theories and skills of management and leadership at the mid-organizational level. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MGMT 227 Training/Development for Busn Credit Hours: 3 / Billing Hours: 3

This course is designed to cover all aspects of training in the business environment. Participants focus on assessing training needs, identifying training barriers, curriculum design, instructional techniques, evaluation, and adult learning theory. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MGMT 224 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 228 Organization Behavior Credit Hours: 3 / Billing Hours: 3

Examines the dynamics of relationships at work. Integrates and applies behavioral and social science knowledge using a systems approach, and focuses on the nature of both people and organizations. Students will study individual and group behavior and will have opportunities to work on skills necessary for successful interaction in organizations. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) .
- Recommended: MGMT 223 or MGMT 224 or MGMT 225.

MGMT 229 Compensation Management Credit Hours: 3 / Billing Hours: 3

Students will gain a practical understanding of the principles and applications of compensation management. Students will study the theories, behaviors, and legal constraints affecting compensation practices, including job analysis, job evaluation methodologies, labor market surveys, variable pay approaches, and the administration of legally mandated and voluntary employee benefit programs. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in MGMT 224.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).
- Recommended: LABR 204.

2025-2026 Course Descriptions

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MGMT 231 Developing and Leading Teams

Credit Hours: 3 / Billing Hours: 3

This course defines and examines team building, team leadership, and self-managed teams in the context of today's workplace. Students develop skills in writing team mission and vision statements, team goals, and action assignments. Chartering, problem solving, decision-making, conducting effective meetings, work sessions, negotiating, and presenting are also explored. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 234 Diversity in the Workplace

Credit Hours: 3 / Billing Hours: 3

This course explores cultural, gender/sexual, physical, and other minority experiences in the workplace and in the world. The management of human resources will be examined from a domestic and global perspective. Emphasis is on helping the majority group and the minority group become aware of the other's opinions, feelings, and perspectives. Instruction takes an experiential, awareness training approach. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

MGMT 237 Managing/Continual Improvement

Credit Hours: 3 / Billing Hours: 3

This course provides an introduction to concepts of quality, continual improvement, systems thinking, and other new management practices. The history of the quality movement including key thinkers/leaders is covered. Methods for continual improvement teams, learning organizations, and new ways of thinking and leading are explored. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently) and Math Level 4.



2025-2026 Course Descriptions

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MGMT 280 Mgmt/Leadership Internship

Credit Hours: 3 / Billing Hours: 3

This course provides an opportunity to apply classroom learning to a career-related position by working a minimum of 160 hours at an approved work site. A student may do an internship at their own job only if the duties are new, management or leadership related, and provide an appropriate learning situation. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4.
- Recommended: Have completed a minimum of 30 Credits.

MGMT 300 Leading for Possibility

Credit Hours: 3 / Billing Hours: 3

Provides an overview of the changing roles of leadership within an organization and lays a foundation for exploration of the emerging roles and functions of leadership in today's changing environments. Theories and skills are applied to a variety of organizational settings. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

MGMT 304 Organization Development

Credit Hours: 3 / Billing Hours: 3

Based on the assumption that all managers and leaders must recognize, plan for, and manage organizational change, this course examines the process of improving organization effectiveness by means of a systematic change program. Students practice identifying problems, selecting appropriate interventions, building action plans, and developing facilitator skills. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

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MGMT 329 Advanced Mgmt Communication

Credit Hours: 3 / Billing Hours: 3

This course explores the importance of ethical and effective communication at the managerial and organizational level of organizations. The course examines strategies for more effective listening, oral, and written communication in business. It explores the ways managers can influence positive strategies for overcoming communication obstacles and recognize the benefits of conflict. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (COMM 110 or COMM 120 or COMM 130) or Department Approval.
- Placement Score: Reading Level 5 and Writing Level 6.

MGMT 332 Ethics for Managers & Leaders

Credit Hours: 3 / Billing Hours: 3

This course is designed to sensitize participants to the impact of ethics on decision-making. Participants will examine values and assumptions, both personal and organizational, which influence management and leadership style. Exploration of the importance of intention and right relationships in strategy and the creation of the future workplace is also included. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

MGMT 335 Managerial Statistics

Credit Hours: 3 / Billing Hours: 3

This course covers applications of statistical tools and techniques to improve managerial decision-making processes. It includes basic descriptive statistics and graphing techniques, probability, probability distributions, hypothesis testing, analysis of variance, regression analysis, time series and forecasting models. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (MATH 120 or STAT 170) or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

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MGMT 337 Strategic Human Resource Mgmt

Credit Hours: 3 / Billing Hours: 3

Human resource skills are developed at an advanced level. Workplace relationships between employee, manager, human resource department, and the organization are analyzed in areas of leadership and motivation, legal compliance, performance planning and evaluation, union-management dynamics, and recognition and reward practices. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MGMT 224 or Department Approval.
- Placement Score: Reading Level 5 and Writing Level 6.

MGMT 345 Strategic Management

Credit Hours: 3 / Billing Hours: 3

This course is designed to help people of vision and courage examine the beliefs, principles, and behaviors which drive organizations. In seminar format, participants investigate possibilities for new ways of thinking together, focusing on emerging perspectives of ourselves, our organizations, our communities, and our world. Students explore the growing importance of environment in creating a context for transformation. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

MILS 110 Introduction to the Army

Credit Hours: 1 / Billing Hours: 1

This course addresses duties and responsibilities of the Army officer and noncommissioned officer, and organizational structure of the Army, Army Reserve, and National Guard. Students will also explore the Army's role in joint operations, Army values, leadership, customs and traditions. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

2025-2026 Course Descriptions

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MILS 111 Introduction to the Army-Lab Credit Hours: 1 / Billing Hours: 2

The Leadership Laboratory augments the Army ROTC academic curriculum by providing hands-on practice of subjects taught in the Military Science classes. Students receive feedback from department staff regarding their leadership performance within the unit structure. Students seeking a commission with the United States Army are highly encouraged to take the laboratories. Over the continuum of the Military Science courses, cadets practice individual movement techniques and field craft, small unit tactics, operations planning and execution, culminating with operational-level organizational management. (Offered Fall)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

MILS 120 Foundations of Army Leadership Credit Hours: 1 / Billing Hours: 1

Topics include: fundamentals of basic Army leadership, military problem solving process, military briefing and writing skills, and goal setting and time management. Students are also introduced to the Army's developmental counseling program. (Offered Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

2025-2026 Course Descriptions

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MILS 121 Fndtion of Army Leadership-Lab Credit Hours: 1 / Billing Hours: 2

The Leadership Laboratory augments the Army ROTC academic curriculum by providing hands-on practice of subjects taught in the Military Science classes. Students receive feedback from department staff regarding their leadership performance within the unit structure. Students seeking a commission with the United States Army are highly encouraged to take the laboratories. Over the continuum of the Military Science courses, cadets practice individual movement techniques and field craft, small unit tactics, operations planning and execution, culminating with operational-level organizational management. (Offered Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

MILS 210 Army Doctrine & Team Developmnt Credit Hours: 2 / Billing Hours: 2

Students will examine military case studies, critical dilemmas in combat situations and the ethical decisions Army leaders make to ensure mission success to develop an understanding of how to improve Army organizations and soldier performance. The Army's leadership development program, battle drills, land navigation, and combat decision making are also addressed. (Offered Fall)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MILS 211 Army Doctrine/Team Develop-Lab Credit Hours: 1 / Billing Hours: 2

The Leadership Laboratory augments the Army ROTC academic curriculum by providing hands-on practice of subjects taught in the Military Science classes. Students receive feedback from department staff regarding their leadership performance within the unit structure. Students seeking a commission with the United States Army are highly encouraged to take the laboratories. Over the continuum of the Military Science courses, cadets practice individual movement techniques and field craft, small unit tactics, operations planning and execution, culminating with operational-level organizational management. (Offered Fall)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

MILS 220 Mil Leadrshp & Decision Making Credit Hours: 2 / Billing Hours: 2

This course uses military case studies to study challenging situations for military leaders and units, and understand how to apply sound ethical leadership practices to implement decisions. Students will also develop an understanding of basic military small unit tactics. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None. Department Approval Required.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MILS 221 Mil Ldrshp/Decision Making-Lab Credit Hours: 1 / Billing Hours: 2

The Leadership Laboratory augments the Army ROTC academic curriculum by providing hands-on practice of subjects taught in the Military Science classes. Students receive feedback from department staff regarding their leadership performance within the unit structure. Students seeking a commission with the United States Army are highly encouraged to take the laboratories. Over the continuum of the Military Science courses, cadets practice individual movement techniques and field craft, small unit tactics, operations planning and execution, culminating with operational-level organizational management. (Offered Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Course Note: Call MSU Department of Military Science at 517-355-1913, for specific information regarding the Military Science program.

MKTG 119 Mktg/Manage Your Profess Image Credit Hours: 3 / Billing Hours: 3

This course is a complete guide to professional etiquette practices to increase career advancement opportunities. Students will learn critical tools for building a professional image as well as solid, productive relationships. Students will develop a personal image development plan designed to meet workplace challenges with confidence and poise. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

MKTG 120 Sales Credit Hours: 3 / Billing Hours: 3

This course presents selling fundamentals for how companies and individuals communicate value and obtain desired results through the process of personal selling, customer relationship management, sales management, and resources utilization, to advance the sales process. This is an application course designed for students to learn selling techniques that they can immediately practice within their careers. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

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MKTG 130 Retailing

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to the retail merchandising environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. Students will explore historical and modern retailing methodologies including challenges of operating in local to global marketplaces. Career opportunities in retailing are examined. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

MKTG 140 Principles of Advertising

Credit Hours: 3 / Billing Hours: 3

Methods and techniques used in modern advertising. Information on the entire advertising function. Preparation of an advertising campaign will be required to facilitate hands-on understanding of the component parts which include marketing review, marketing plan, creative strategy, and media selection. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

MKTG 200 Principles of Marketing

Credit Hours: 3 / Billing Hours: 3

Most define marketing as advertising, yet that is only one element in what is known as the Marketing Mix, comprised of product, price, promotions, and more. However, marketing involves market research and demographic strategy to identify customer needs, target audiences, positioning, distribution channels, and promotion methodologies. Students will learn the fundamentals of marketing through case studies and the practical application of marketing tactics. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: BUSN 118.

2025-2026 Course Descriptions

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MKTG 204 Marketing Research

Credit Hours: 3 / Billing Hours: 3

This course examines key concepts and methods of marketing research for students to understand how to apply methodological tools to solve real-life business problems. Students will learn research design techniques including problem identification, qualitative and quantitative data collection and sampling, analysis, interpretation, and the applications of marketing research. Students will design and execute a marketing research project. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in MKTG 200.
- Placement Score: Reading Level 5 and Writing Level 6.

MKTG 210 Intro to Digital Marketing

Credit Hours: 3 / Billing Hours: 3

This course will explore the impact of information technology on the practice of marketing. Course content focuses on the internet and its culture and procedures from a marketing perspective, and will include using the internet for customer contact and customer service. Focus areas include, but are not limited to, understanding digital tools such as Canva, Search Engine Optimization, AI and ChatGPT, Boolean, and Google Analytics. This class uses extensive hands-on activities. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: MKTG 200 and basic understanding of computers and their use on the Internet.

MKTG 229 Public Relations

Credit Hours: 3 / Billing Hours: 3

This course provides the student with a working knowledge of the theories, techniques, and processes of public relations, including means of influencing methods of building good will, analysis of media, obtaining publicity, and implementation of public relations programs. Students will learn the importance of cultivating key relationships with media personnel, writing press releases, and crisis management. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MKTG 235 Marketing Internship

Credit Hours: 3 / Billing Hours: 3

This course provides an opportunity to apply classroom learning to a career-related position by working a minimum of 160 hours at an approved work site. A student may do an internship at their own job only if the duties are new, marketing related, and provide an appropriate learning situation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Recommended: Have completed a minimum of 30 credits.

MRIT 200 Professional Prospectus

Credit Hours: 1 / Billing Hours: 0

This course serves to orientate the MRI student to the profession of medical imaging. Students will explore the integration of MRI within the encompassing health care system. The evolution of MRI as a profession will be investigated with students classifying various organizations and agencies that drive the development and continuing education of the MRI technologist's role and responsibilities. (Offered Summer)

- Prerequisite Course: None. Admission to the EPiC Magnetic Resonance Imaging Program is required.
- Placement Score: None.
- Corequisite Course: MRIT 229 and MRIT 260.

MRIT 201 Computer Apps/Medical Imaging

Credit Hours: 3 / Billing Hours: 0

This course serves to provide the MRI student with a basic understanding of computer applications. Students will explore the components, principles, and operation of digital imaging systems, image data management, and data manipulation as it relates to the imaging department. Students will also explore the basic concepts of patient information management including medical record concerns, patient privacy, and regulatory issues. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (MRIT 200 and MRIT 229 and MRIT 260).
- Placement Score: None.
- Corequisite Course: MRIT 220 and MRIT 230 and MRIT 261.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MRIT 220 MR Physics I

Credit Hours: 3 / Billing Hours: 0

This is the first in a series of two courses that provide the MRI student with a basic foundation of MRI physics. Students will explore the properties of atoms and their interactions within the magnetic field. Emphasis will be placed on the basic principles of MRI, data acquisition, and tissues characteristics in image formation. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (MRIT 200 and MRIT 229 and MRIT 260).
- Placement Score: None.
- Corequisite Course: MRIT 201 and MRIT 230 and MRIT 261.

MRIT 222 MR Physics II

Credit Hours: 3 / Billing Hours: 0

This is the final physics course in a series of two. The course content is a continuation of Physics I concepts including pulse sequencing, applications, coil selection as it relates to scan selection, calculation of scan times, scan parameters and imaging factors. Emphasis will be placed on the topics of gradient echoes, cardiac imaging, magnetic resonance angiography, diffusion, perfusion, and spectroscopy. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MRIT 201 and MRIT 220 and MRIT 230 and MRIT 261).
- Placement Score: None.
- Corequisite Course: MRIT 232 and MRIT 240 and MRIT 262.

MRIT 229 Applied Sectional Anatomy

Credit Hours: 3 / Billing Hours: 0

This course is a study of human anatomy as seen in multiple planes. Students will review the gross anatomy of the entire body and identify anatomic structures in the axial, sagittal, coronal, and orthogonal planes. Emphasis will be applied to the appearance characteristics of each structure as seen on illustrations and photographic images correlated with magnetic resonance (MR) and computed tomography (CT). (Offered Summer)

- Prerequisite Course: None. Admission to the EPiC Magnetic Resonance Imaging Program is required.
- Placement Score: None.
- Corequisite Course: MRIT 200 and MRIT 260.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MRIT 230 MR Procedures and Pathophys I Credit Hours: 3 / Billing Hours: 0

This is the first in a series of two courses that will provide the student with considerations related to routine imaging techniques of the central nervous system (CNS) and musculoskeletal system (MSK). Students will explore the signal characteristics of normal anatomy and compare it to common pathologies. Emphasis will be placed on tissue characteristics, protocol options, and positioning considerations. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (MRIT 200 and MRIT 229 and MRIT 260).
- Placement Score: None.
- Corequisite Course: MRIT 201 and MRIT 220 and MRIT 261.

MRIT 232 MR Procedures and Pathophys II Credit Hours: 3 / Billing Hours: 0

This is the final procedures and pathophysiology course in a series of two that will provide the student with considerations related to routine imaging techniques related to the abdomen and pelvis and special imaging techniques. Students will explore the signal characteristics of normal anatomy and compare it to common pathologies. Emphasis will be placed on tissue characteristics, protocol options, and positioning considerations. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MRIT 201 and MRIT 220 and MRIT 230 and MRIT 261).
- Placement Score: None.
- Corequisite Course: MRIT 222 and MRIT 240 and MRIT 262.

MRIT 240 MRI Image Analysis Credit Hours: 3 / Billing Hours: 0

This course provides the MRI student with the critical assessment skills necessary to recognize and identify pathology and artifacts. Students will explore the necessary parameter adjustments for differential diagnosis. Emphasis will be placed on quality control procedures, image post-processing, and image archiving. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MRIT 201 and MRIT 220 and MRIT 230 and MRIT 261).
- Placement Score: None.
- Corequisite Course: MRIT 222 and MRIT 232 and MRIT 262.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MRIT 260 MRI Pre-Clinical Preparation Credit Hours: 3 / Billing Hours: 0

This course prepares the MRI student for safe participation in clinical education within the MRI environment. Students will explore and discuss the importance of MRI safety and patient assessment. While most of the course is delivered online, students will practice and master various safety procedures in a face-to-face workshop setting. (Offered Summer)

- Prerequisite Course: None. Admission to the EPiC Magnetic Resonance Imaging Program is required.
- Placement Score: None.
- Corequisite Course: MRIT 200 and MRIT 229.

MRIT 261 Clinical Practice I Credit Hours: 3 / Billing Hours: 0

This is the first in a series of three clinical courses that provides the necessary supervised clinical education needed for the MRI student to competently apply basic protocols, recognize when to appropriately alter the standard protocol and recognize equipment and patient considerations that affect image quality. Emphasis will be placed on patient safety and comfort while professional values, attitudes, and behaviors are upheld. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (MRIT 200 and MRIT 229 and MRIT 260).
- Placement Score: None.
- Corequisite Course: MRIT 201 and MRIT 220 and MRIT 230.

MRIT 262 Clinical Practice II Credit Hours: 3 / Billing Hours: 0

This is the second in a series of three clinical courses that provides the necessary supervised clinical education needed for the MRI student to competently apply basic protocols, recognize when to appropriately alter the standard protocol, and recognize equipment and patient considerations that affect image quality. Emphasis will be placed on patient safety and comfort while professional values, attitudes, and behaviors are upheld. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (MRIT 201 and MRIT 220 and MRIT 230 and MRIT 261).
- Placement Score: None.
- Corequisite Course: MRIT 222 and MRIT 232 and MRIT 240.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MRIT 263 Clinical Practice III Credit Hours: 3 / Billing Hours: 0

This is the final clinical course in a series of three that provides the necessary supervised clinical education needed to complete all remaining competencies required by the American Registry of Radiologic Technologists (ARRT) following the Primary Pathway requirements. Emphasis will be placed on patient safety and comfort while professional values, attitudes, and behaviors are upheld. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (MRIT 222 and MRIT 232 and MRIT 240 and MRIT 262).
- Placement Score: None.
- Corequisite Course: MRIT 295.

MRIT 295 MRI Certification Exam Prep Credit Hours: 3 / Billing Hours: 0

This course provides the student with instructional review and a self-examination process as preparation for the certification exam in MRI. Discussions will focus on the four content specifications for examination in magnetic resonance as outlined in the American Registry of Radiologic Technology (ARRT) primary pathway certification handbook. Students will have the opportunity to participate in an 8 hour registry review seminar. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (MRIT 222 and MRIT 232 and MRIT 240 and MRIT 262).
- Placement Score: None.
- Corequisite Course: MRIT 263.

MSGE 110 Massage for Beginners Credit Hours: 0.53 / Billing Hours: 1

This course provides instruction in basic relaxation massage therapy skills for non-majors. Along with a brief introduction to the history and principles of massage therapy, the student will learn to perform a professionally draped, full-body relaxation massage on a partner for health enhancement. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Must be 18 years of age.
- Placement Score: None.
- Course Note: Students are required to bring two sheets and unscented massage lotion to the first class session. If you are pregnant in your 2nd or 3rd trimester, or are receiving treatment for a diagnosed medical condition, you are required to bring a written release from your doctor to the first class session to participate in this course.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 131 Message I

Credit Hours: 2.13 / Billing Hours: 4

This course provides foundational information on the theory and practice of massage therapy. Swedish massage techniques, with variations, are developed into a sequence for a full-body therapeutic massage for healthy adults. Topics include basic anatomy and physiology of major muscle groups and bones, massage benefits and contraindications, professional ethics, clinical charting, thermo- and cryotherapy, body mechanics, and self-care. (Offered Fall, Spring)

- Prerequisite Course: None. HS Diploma or Equivalent and Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: The Massage Program is offered in two distinct sessions that cannot be combined: a Daytime Cohort beginning in the fall and an Evening Cohort beginning in the spring. Students enrolling in the Daytime Cohort will complete the program in three consecutive semesters, Fall 2025 through Summer 2026. Students enrolling in the Evening Cohort will complete the program in three consecutive semesters, Spring 2026 through Fall 2026. To enroll, students must be 18 years of age or older by the start of classes and must declare Massage Therapy as their major. Students wishing to enroll must attend a mandatory one-hour program orientation and submit a program approval application with required supporting documentation at least two weeks prior to the start of the semester. Orientation dates and the program approval application can be found on the ["Steps to Apply" webpage](#). Seats are limited and are awarded on a first come, first served basis. Contact the Health and Human Services Division Office at 517-483-1410 for more information.

MSGE 132 Anatomy/Physiology Massage

Credit Hours: 3.20/ Billing Hours: 6

An introductory course in human anatomy and physiology that combines lecture and laboratory experiences to provide a basic understanding of the structure and function of human body systems. It is designed for students enrolled in the Massage Program to prepare for licensing exams and professional practice.

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 132A Anatomy/Physiology Massage I

Credit Hours: 2.13 / Billing Hours: 4

An introductory course in human anatomy and physiology that combines lecture and integrated assignments to provide a basic understanding of the structure and function of the skeletal, muscular, and nervous systems of the human body. It is designed for students enrolled in the Massage Therapy Program to prepare for professional practice and licensing exams. (Offered Fall, Spring)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 132B Anatomy/Physiology Massage II

Credit Hours: 1.06 / Billing Hours: 2

An introductory course in human anatomy and physiology that combines lecture and laboratory experiences to provide a basic understanding of the structure and function of the cardiovascular, respiratory, endocrine, digestive, special sensory, lymphatic, immune, urinary, and reproductive systems of the human body. It is designed for students enrolled in the Massage Program to prepare for licensing exams and professional practice. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 137 Medical Terminology in Massage

Credit Hours: 1.06 / Billing Hours: 2

This course will introduce the student to basic medical vocabulary related to the body system. Basic pharmacology will be presented with the classifications and names of common medications, as well as massage considerations for common medications. (Offered Fall, Spring)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 139 Pathology for Massage

Credit Hours: 1.06 / Billing Hours: 2

This course will introduce students to the pathology of body systems and will address the positive or negative impact that massage may have on those conditions. Students will learn to apply this knowledge to decision-making skills for client care.

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 139A Pathology for Massage I

Credit Hours: 0.53 / Billing Hours: 1

This course introduces students to the pathology of the skeletal, muscular, and nervous systems. It will address the positive and negative impacts that massage may have on those conditions. In order to make evidence-informed decisions about client care for specific conditions, students will learn to read and apply data from research studies. (Offered Fall, Spring)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 139B Pathology for Massage II

Credit Hours: 0.53 / Billing Hours: 1

This course will introduce students to the pathology of the cardiovascular, lymphatic, immune, endocrine, respiratory, digestive, urinary, and reproductive body systems and will address the positive and negative impacts that massage may have on those conditions. Students will learn to apply this knowledge to decision-making skills for client care. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 141 Message Clinic I

Credit Hours: 1.33 / Billing Hours: 2.5

Students will progressively utilize the knowledge, skills, and practical experience attained throughout the Massage Program in a clinical setting and in event massage. The student will be engaged in weekly scheduled massage sessions with clients in this first of three clinical courses. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 151 Applied Massage Techniques

Credit Hours: 2.93 / Billing Hours: 5.5

This course will introduce the student to various massage techniques and how these techniques relate to individuals with specific needs. The focus will be on designing and implementing appropriate massage techniques for chair massage, infants, pregnant women, athletes, chronic and terminally ill individuals, the elderly, and clients with psychological issues.

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 151B Event Massage

Credit Hours: 0.80 / Billing Hours: 1.5

This course prepares the student to perform corporate-venue office massage and massage prior to and following an athletic event or training session. Techniques cover table, on-site chair, and tabletop chair equipment options. Thermal injuries, the use of ice and heat to supplement the healing effects of massage, cross-fiber friction techniques, and indications, contraindications and procedures of event massage are also covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 151D Special Populations

Credit Hours: 0.80 / Billing Hours: 1.5

The focus of this course will be on learning information needed for designing and implementing appropriate massage therapy sessions for the chronic and terminally ill, the elderly, and clients with psychological and emotional issues. Students learn to adapt massage techniques to the needs of target populations. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 170 Massage Directed/Indep Study Credit Hours: 0.13 to 4.26 / Billing Hours: 0.25 to 7

This course includes special research, projects, or directed study in massage. Massage students may enroll to update or enhance knowledge, skills, and competencies. Advanced students may explore topics related to, but not included in the curriculum. A learning contract specifying objectives, activities, outcomes, and grading methods is required. (Offered As Needed)

- Prerequisite Course: None.
- Placement Score: Determined by Section.

MSGE 231 Massage II

Credit Hours: 2.13 / Billing Hours: 4

This course will introduce the student to clinical massage techniques. Students will learn anatomy, physiology, and kinesiology of specific muscles of the superficial front line, superficial back line, and lateral line followed by clinical massage techniques and stretches to treat these areas. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 232 Message III

Credit Hours: 2.13 / Billing Hours: 4

This course will continue to introduce the student to clinical massage techniques. Students will learn anatomy, physiology and kinesiology of specific muscles of the spiral line, arm line, and deep front line followed by clinical massage techniques and stretches to treat these areas. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 241 Message Clinic II

Credit Hours: 1.33 / Billing Hours: 2.5

Students will progressively utilize the knowledge, skills, and practical experience attained throughout the Massage Program in a clinical setting and in an event massage. The student will be engaged in weekly scheduled massage sessions with clients in this second of three clinical courses. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 242 Message Clinic III

Credit Hours: 1.60 / Billing Hours: 3

Students will progressively utilize the knowledge, skills, and practical experience attained throughout the Massage Program in a clinical setting and in event massage. The student will be engaged in weekly scheduled massage sessions with clients in this last of three clinical courses. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MSGE 254 Busn App for Massage

Credit Hours: 1.10 / Billing Hours: 2

This course introduces students to aspects of business and marketing in the field of massage and body work. Emphasis is placed on development of a professional and personal business sense using planning and persistence, client-practitioner relationships, research, marketing strategy, goal-setting, motivation, and professional legalities. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 256 Clinical Assess for Massage

Credit Hours: 1.06 / Billing Hours: 2

This course introduces the student to a systematic method of deciding which specific massage techniques to apply and when to apply them. Students use newly acquired assessment skills to gather data to deal effectively with common musculoskeletal complaints, and then apply critical thinking skills to formulate a treatment plan that best addresses the issues identified. (Offered Fall, Summer)

- Prerequisite Course: Minimum 2.5 in all previous required MSGE courses. Program Approval is required.
- Placement Score: Reading Level 5 and Writing Level 6.

MSGE 258 Career Longevity

Credit Hours: 1.06 / Billing Hours: 2

The concepts taught in this Massage Therapy Program class teach students how to mentally and physically care for themselves in order to sustain a career as a massage therapist. Emphasis is placed on the impact of health, wellness and fitness for career longevity. General wellness principles and specific massage-related applications are also addressed. (Offered Fall, Spring)

- Prerequisite Course: None. Program approval required.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 101 Vocal Jazz & Pop Ensemble

Credit Hours: 1 / Billing Hours: 3

A select vocal ensemble specializing in jazz and contemporary music for mixed voices. Artistic and creative vocal skills, improvisation and interpretation are developed through ensemble, small group and solo performance. Participation in two to four concerts per semester is required. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.

MUSC 106 Private Music Lesson

Credit Hours: 2 / Billing Hours: 2

Concentrated one-to-one training in vocal/instrumental skills, techniques and repertory. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.
- Corequisite Course: MUSC 121 or MUSC 122 or MUSC 123 or MUSC 124.

MUSC 108 Concert Choir

Credit Hours: 1 / Billing Hours: 3

A larger student and community member mixed voice choir exploring diverse styles, genres, repertoires and cultural traditions spanning the choral experience. General musicianship and training in choral singing are developed. Participation in two to four concerts per semester is required. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 109 Studio Class

Credit Hours: 1 / Billing Hours: 1

Studio Class will include discussion of practice routines and habits, technical and stylistic problems, performance anxiety, and repertoire memorization, as well as in class performances by the students. Students enrolled in MUSC 157, 158, 257, or 258 must enroll in MUSC 109. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: MUSC 157 or MUSC 158 or MUSC 257 or MUSC 258.

MUSC 122 Rock Band

Credit Hours: 1 / Billing Hours: 3

The Rock Band rehearses and performs rock music of diverse styles, including cover songs as well as original compositions and arrangements by students. The instrumentation is open to the characteristic make-up of rock ensembles, including guitar, bass, keyboard, drum-set instruments and singers. Other instrumentalists may join to expand the ensemble. Participation in two to four concerts per semester is required. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 123 Jazz Ensemble

Credit Hours: 1 / Billing Hours: 3

The Jazz Ensemble rehearses and performs pieces of diverse styles from various periods in jazz history. Musical, interpretative and improvisational skills are developed through ensemble, small combo and solo performances. Participation in two to four concerts per semester is required. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval by Audition Required.
- Placement Score: None.
- Recommended: Music reading skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.

MUSC 124 Multi-Instrumental Music Ensem

Credit Hours: 1 / Billing Hours: 3

This course is dedicated to the exploration of new sound combinations of a variety of instrumentations. This ensemble welcomes players of all instrument types. Compositional, improvisational, and interpretative skills are developed through ensemble, small group, and solo performances. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.

MUSC 134 Live Sound/Event Production

Credit Hours: 3 / Billing Hours: 3

Students learn to design, set-up, and operate sound reinforcement systems for live performances and events. Students will gain hands-on experience with industry-standard, professional equipment by working in a laboratory/workshop setting as technicians for musical, theatrical, and corporate/community events. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 138 Keyboard Harmony I

Credit Hours: 2 / Billing Hours: 3

Music reading skills are required for this course. Keyboard Harmony I introduces fundamental keyboard skills primarily for music majors. Students develop facility in performing scales, arpeggios, intervals, chords, inversions, and diatonic harmonic progressions in all major and some minor keys. Pieces in two- to four-part textures are performed. Harmonizing melodies, simple transposition and reading lead sheets are introduced. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 168 or passing score on the Music Theory Placement Test.
- Placement Score: None.

MUSC 143 Beginning Piano I - Summer

Credit Hours: 1 / Billing Hours: 1

Course assumes no prior music experience or knowledge. Students are introduced to the rudiments of playing piano. Staff notation, rhythmic notation, correct fingering/hand positions, major scales, and primary chords are introduced. Simple two hand pieces are performed. (Offered Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.

MUSC 144 Beginning Piano I

Credit Hours: 2 / Billing Hours: 2

Course assumes no prior music experience or knowledge. Students are introduced to the rudiments of playing piano. Staff notation, rhythmic notation, correct fingering/hand positions, major scales, and primary chords are introduced. Simple two hand pieces are performed. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music reading skills.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 145 Beginning Piano II

Credit Hours: 2 / Billing Hours: 2

This course is designed to take the student up to an intermediate level of playing. Rhythmic subdivisions, more complex fingering, and new major and minor keys are introduced. Two-hand pieces are performed. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 144.
- Placement Score: None.

MUSC 157 Applied Lesson I

Credit Hours: 2 / Billing Hours: 2

Concentrated one-to-one training in vocal/instrumental skills, techniques and repertory for Music majors only. Students must perform in Music Studio convocations and attend public concert events. Progression to the next level of Applied Lessons is by successfully passing a jury performance adjudicated by a Music faculty panel. (Offered Fall, Spring)

- Prerequisite Course: None. Music Major Audition Required.
- Placement Score: None.
- Corequisite Course: MUSC 109

MUSC 158 Applied Lesson II

Credit Hours: 2 / Billing Hours: 2

Concentrated one-to-one training in vocal/instrumental skills, techniques and repertory for Music majors only. Students must perform in Music Studio convocations and attend public concert events. Progression to the next level of Applied Lessons is by successfully passing a jury performance adjudicated by a Music faculty panel. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 157 or Music Major Audition.
- Placement Score: None.
- Corequisite Course: MUSC 109.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 163 Aural Skills I

Credit Hours: 1 / Billing Hours: 2

Music reading skills are required for this course. Aural Skills I allows students to develop their aural capacity through exercises in beginning melodic and rhythmic dictation. The ability to sing melodies on sight through the use of solfeggio will also be developed. This is the first of two courses in freshman aural skills. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 168 or passing score on the Music Theory Placement Test.
- Placement Score: None.

MUSC 164 Aural Skills II

Credit Hours: 1 / Billing Hours: 2

This course allows students to develop their aural skills through intermediate exercises in melodic and rhythmic dictation. The ability to sightsing melodies through the use of solfeggio continue to be developed. This course is the second in a sequence of two freshman music major requirements. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in MUSC 163.
- Placement Score: None.

MUSC 168 Rudiments of Music

Credit Hours: 3 / Billing Hours: 3

This course introduces students and beginning musicians to the basics of reading and notating music. Fundamentals of rhythm, meter, pitch, intervals, scales, chords, keys and simple harmonic progressions are reviewed. Elements of music are explored through musical examples drawn from a variety of styles and genres. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 171 Sound Design & Production

Credit Hours: 4 / Billing Hours: 4

This course builds upon the fundamental audio and DAW skills achieved in DMAC 120. Students will develop advanced skills in computer-based editing, arranging, mixing, and publishing of audio programming with the Pro Tools platform. Students will also study advanced sound design principles and methods, modern concepts, and techniques for using signal processing, simple acoustics, and audio for video post-production techniques. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in DMAC 120.
- Placement Score: Reading Level 5 and Writing Level 6.

MUSC 172 Studio Recording

Credit Hours: 4 / Billing Hours: 4

This course introduces the concepts of multi-track audio recording for music and entertainment production. Students will gain a comprehensive understanding of the audio recording chain, signal path, console design/operation, microphone design function and placement to optimize audio recording, application of basic signal processing, and basic studio acoustics. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in DMAC 120.
- Placement Score: Reading Level 5 and Writing Level 6.

MUSC 193 Music Theory I

Credit Hours: 4 / Billing Hours: 4

Freshman-level course in tonal harmony covering concepts and applications of scales, intervals, keys, rhythm, diatonic chords, inversions and basic part-writing for four voices. Harmonic progressions, cadence structures and simple forms are studied through both analysis and student composition. Introduces principles of counterpoint and jazz theory. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 168 or passing score on the Music Theory Placement Exam.
- Placement Score: Reading Level 5 or ENGL 099 concurrently.
- Corequisite Course: MUSC 163.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 194 Music Theory II

Credit Hours: 4 / Billing Hours: 4

Third semester course in tonal harmony covering diatonic seventh chords, non-chord tones, secondary functions, modulations and larger musical forms. Focus on advancing students' skills in part-writing, analysis, score-reading and counterpoint. Concepts are applied through student composition in classical, jazz and/or popular styles. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in MUSC 193.
- Placement Score: Reading Level 5 or ENGL 099 concurrently.
- Corequisite Course: MUSC 164.

MUSC 197 Electronic Music Production

Credit Hours: 2 / Billing Hours: 3

This course is designed to introduce students to electronic music production. Students will learn the fundamental concepts of using MIDI, pre-existing loops, virtual instruments, and contemporary sequencing and synthesizer software. They will also use digital audio recording methods to augment their electronic work, creating and producing work suitable for diverse media applications. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Familiarity with computers; music reading skills and familiarity with music keyboard.

MUSC 199 Music Appreciation

Credit Hours: 3 / Billing Hours: 3

Designed for non-music majors, this course develops well-informed, focused listening. Students are acquainted with representative composers, compositions, and musical characteristics of a variety of style periods from early music through 20th Century music from selected cultural centers including the United States and Europe. Students are required to attend live performances. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 237 Musical Theater Performance

Credit Hours: 2 / Billing Hours: 3

An introductory course for vocalists and actors emphasizing applying acting techniques to song performance. Students will explore music from a preselected range of musical theatre styles. Focus is on stage presence, movement, and advancing dramatic action through the song. The class concludes with a public performance. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Music Reading Skills.
- Course Note: A non-credit option is available for this class at a reduced rate. See the NCCE 200 listing in the Community and Continuing Education section of the College Catalog for more information.

MUSC 240 Musical Cultures to 1750

Credit Hours: 4 / Billing Hours: 4

An historical and analytical survey of music and its development from Antiquity through 1750. Emphasizes an understanding of both Western and non-western genres, styles, composers and literature in relationship to historical, geographical and cultural contexts. Strengthens aural analytical skills and understanding of fundamental musical concepts. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: (Reading Level 5 and Writing Level 4) or ENGL 099 concurrently.

MUSC 241 Musical Cultures 1750-Present

Credit Hours: 4 / Billing Hours: 4

An historical and analytical survey of music and its development from 1750 to the present. Emphasizes an understanding of both Western and non-western genres, styles, composers, literature and emerging world musics in relationship to historical, geographical and cultural contexts. Strengthens aural analytical skills and understanding of fundamental musical concepts. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4 or ENGL 099 concurrently.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 255 Music Business & Management Credit Hours: 3 / Billing Hours: 3

An introduction to the business aspects of the music industry. Areas covered include copyrights, contracts, trademarks, publishing, recording and record company operations, personal managers, booking agents, concert promotions, and unions. Aspects of band management are also covered, including intra-band arrangements, promotion and sales, road management, and basic organizational information. (Offered Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

MUSC 257 Applied Lesson III Credit Hours: 2 / Billing Hours: 2

Concentrated one-to-one training in vocal/instrumental skills, techniques and repertory for Music majors only. Students must perform in Music Studio convocations and attend public concert events. Progression to the next level of Applied Lessons is by successfully passing a jury performance adjudicated by a Music faculty panel. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 158 or Music Major Audition.
- Placement Score: None.
- Corequisite Course: MUSC 109.

MUSC 258 Applied Lesson IV Credit Hours: 2 / Billing Hours: 2

Concentrated one-to-one training in vocal/instrumental skills, techniques and repertory for Music majors only. Students must perform in Music Studio convocations and attend public concert events. A final jury or recital performance is adjudicated by a music faculty panel. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 257 or Music Major Audition.
- Placement Score: None.
- Corequisite Course: MUSC 109.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

MUSC 280 Private Composition

Credit Hours: 1 / Billing Hours: 1

Private coaching/instruction for music majors, 40 minutes per week, in musical composition, giving attention and suggestion to melody, harmony, chord substitution, and formal design. Students are required to attend live performances. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.

MUSC 296 Music Internship

Credit Hours: 3 / Billing Hours: 3

A worksite experience that serves as a business-related course for music management students. Students will work at venues that support music performance, promotions, business, management, and/or recording. Regularly scheduled progress reports will be given and discussed with the supervising faculty member. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: None.

MUSC 298 Composition and Sound Design

Credit Hours: 3 / Billing Hours: 3

Composition and Sound Design uses electronic based methods and techniques to compose music and sound content. Using loop/sample and synthesis-based instruments in a project-based environment, students will score compositions for film/video/broadcast, streaming, and gaming systems. The course emphasizes producing music and sound design for audio that is synchronized to picture. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in MUSC 197.
- Placement Score: None.
- Recommended: Computer experience; Music reading skills.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCAS 102 Noncredit Academic Supprt-ENGL Credit Hours: 0 / Billing Hours: 0

NCAS102 is a 2-hour per week, pass/fail lab open to students placing just below college-level in writing. Students co-enroll in the lab and a paired section of ENGL121. The lab follows the curriculum of the composition class and focuses on building skills in critical reading (text and visual information); writing/research strategies and processes; vocabulary expansion; and textbook navigation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4
- Corequisite Course: ENGL 121.

NCAS 103 Noncredit Academic Supprt-SOCL Credit Hours: 0 / Billing Hours: 0

NCAS 103 is a 2-hour per week, pass/fail lab open to students enrolled in ENGL098. Students co-enroll in the lab and a paired section of SOCL 120 (Introduction to Sociology). The lab follows the curriculum of the sociology class and focuses on applying skills in critical reading (text and visual information); writing/research strategies and processes; vocabulary expansion; and textbook navigation to the Introduction to Sociology course work. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: ENGL 098 and SOCL 120.

NCAS 104 Noncredit Academic Supprt-PSYC Credit Hours: 0 / Billing Hours: 0

NCAS104 is a 2-hour per week, pass/fail lab open to students enrolled in ENGL098. Students co-enroll in the lab and a paired section of PSYC 200 (Introduction to Psychology). The lab follows the curriculum of the psychology class and focuses on applying skills in critical reading (text and visual information); writing/research strategies and processes; vocabulary expansion; and textbook navigation to the Introduction to Psychology course work. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: ENGL 098 and PSYC 200.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCAS 105 Noncredit Academic Supprt-BUSN Credit Hours: 0 / Billing Hours: 0

NCAS105 is a 2-hour per week, pass/fail lab open to students enrolled in ENGL098. Students co-enroll in the lab and a paired section of BUSN118 (Introduction to Business). The lab follows the curriculum of the business class and focuses on applying skills in critical reading (text and visual information); writing/research strategies and processes; vocabulary expansion; and textbook navigation to the Introduction to Business course work. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: ENGL 098 and BUSN 118.

NCBD 50 Building/Design Special Topics Credit Hours: 0 / Billing Hours: 0

Skilled tradespersons and job seekers who need to gain skills and knowledge in order to obtain or retain employment in building, design, and industries utilizing tradespersons. (Offered Fall, Spring)

- Prerequisite Course: None.

NCCC 101 College Connect Credit Hours: 0 / Billing Hours: 0

This program is designed to help students transition to college with weekly college and career readiness sessions. Students will participate in reading, writing, and math refreshers. Additionally, these sessions will include information about college admissions, financial aid, and academic skills, like time management, studying, and notetaking. Students completing the College Connect program will be able to enroll in college-level English and/or Mathematics courses, with or without co-support courses.

NCCC 101E College Connect - English Credit Hours: 0 / Billing Hours: 0

This course includes a review of essential reading and writing skills, focusing on main idea, supporting details, inferences, organizational patterns, topic sentences, thesis statements, paragraph and essay unity, and support for conclusions.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCCC 101M College Connect - Math

Credit Hours: 0 / Billing Hours: 0

This course will provide students with assessments and opportunities to improve their math skills, including soft-skills such as test-taking strategies, learning and study skills, exposure to academic advising, tutoring services, and academic success coaches. Students will have access to the ALEKS software platform, which allows them to refresh specific math skill areas as determined by their interactive work on the platform.

NCCE 200 Creative Arts

Credit Hours: 0 / Billing Hours: 0

This non-credit series of courses focuses on personal creativity through music and the arts. Seminars provide students hands-on opportunities in the areas of instrumental or vocal music, photography, or the visual and performing arts. (Offered Fall, Spring)

- Prerequisite Course: None.

NCCE 700 Health and Wellness Seminars

Credit Hours: 0 / Billing Hours: 0

Seminars in this non-credit series are designed to promote personal well-being and increase awareness of physical and emotional health. Students will gain insight into strategies to enhance their daily life. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.

NCCT 200 Noncredit Industrial Trades

Credit Hours: 0 / Billing Hours: 0

Training in this series will focus on the needs of any industrial occupations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.

NCCT 600 Noncredit Public Safety Svcs

Credit Hours: 0 / Billing Hours: 0

Training in this series will focus on topics within public safety services. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCCT 800 Noncredit Career Preparation Credit Hours: 0 / Billing Hours: 0

Training in this series will focus on topics towards career preparation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None

NCEL 30 Low Intermediate Accelerated Credit Hours: 0 / Billing Hours: 0

This 6-week non-credit course is the Low Intermediate ESOL reading, speaking, writing, and listening course for English as a Second Language learners. This course is an accelerated course, utilizing lectures and online instruction. This course focuses on assisting students in further developing fluency and accuracy in speaking and reading skills for college and workplace success.

Students will be able to develop and apply additional strategies for comprehending and processing written and spoken passages. Students will be able to expand their vocabulary building skills and improve their reading strategies, reading and listening comprehension, and speaking skills. Audio equipment and computers are available to aid students in developing proficiency. In addition to class time, students are expected to spend 4-6 hours/week on course work.

- Placement Score: ESL Test AVERAGE 89-99 (ESOL 3; no score below 84) and Listening >50 (ESLL 1)
- Course Note: For any questions, please contact the Job Training Center at 517-483-1857. Cost of this class is \$50.

NCEL 33 Multi-Skills III Credit Hours: 0 / Billing Hours: 0

This 6-week non-credit course is the intermediate ESOL Multi-skills course for English as a Second Language learners. This course focuses on improving and building upon the skills and strategies acquired in NCEL 030.

- Placement Score: ESL Test AVERAGE 89-99 (ESOL 3; no score below 84), and Listening >50 (ESLL 1).
- Course Note: For any questions, please contact the Job Training Center at 517-483-1857. Cost of this class is \$50.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCEL 34 **ESL Combined Skills Level 3** **Credit Hours: 0 / Billing Hours: 0**

This course focuses on assisting students in further developing fluency and accuracy in speaking and reading skills for college and workplace success. Students will be able to develop and apply additional strategies for comprehending and processing written and spoken passages. Students will be able to expand their vocabulary building skills and improve their reading strategies, reading and listening comprehension, and speaking skills. Audio equipment and computers are available to aid students in developing proficiency. In addition to class time, students are expected to spend 4-6 hours/week on course work.

- Placement Score: ESL Test AVERAGE 89-99 (ESOL 3; no score below 84), and Listening >50 (ESLL 1) or
- CASAS Life and Work Reading 201-210 / CASAS Life and Work Listening 200-209.
- Course Note: For any questions, please contact the Job Training Center at 517-483-1857.

NCEL 35 **ESL Skills Level 1A - Reading** **Credit Hours: 0 / Billing Hours: 0**

ESL Skills Level 1A - Reading focuses on low-beginning-level listening, speaking, reading, grammar, and writing skills. Students will learn skills and strategies for listening more effectively, reading with greater fluency, and communicating effectively in speaking and writing. Topics may include Personal Information, Education, Getting a Job, Money Matters, and Health.

NRS Low Beginning (LCC ESOL Level 1) Reading 184-196 / Listening 182-191 (in LCC's placement system this would read as ESL 1 / ELL 1)

Low Beginning - intended for students with beginning English-language skills, literate in their native language, and some familiarity with basic written and spoken English (know the alphabet, recognize basic phrases, able to form and write simple sentences with errors in grammar, spelling, and mechanics. Course exit - form basic sentences orally and in writing using present, present progressive, simple past, and simple future tenses. Respond to basic questions and directions. Read and respond to questions about short informational texts.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCEL 97 ESL Listening-Speaking

Credit Hours: 0 / Billing Hours: 0

Non-native speakers of English will develop effective listening and speaking skills for college and careers using real-life conversations, lectures, and presentations. Students will learn to communicate effectively by modifying their own speech to achieve conversational fluency and by applying strategies for communicating with different levels of formality, politeness, and directness. Co-enrollment in ESOL 098 or ESOL 099 is recommended. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: ESOL Level 4 or ESOL Level 5.

NCEL 160 ESOL for Health Careers

Credit Hours: 0 / Billing Hours: 0

This 8-week non-credit course is focuses on vocabulary specifically used in health-related situations. The vocabulary is essential for students planning to work in a field related to health care. The course also explores various careers in the health field, with an emphasis on short-term certificate programs that lead to employment in one-to-two semesters. This course is an accelerated course, using lecture and online instruction. Students will be able to expand their vocabulary building skills and improve their reading strategies, reading and listening comprehension, speaking skills, and writing skills. Audio equipment and computers are available to aid students in building fluency. Students are expected to work 4-6 hours/week in addition to class time.

- Prerequisite Course: Minimum 2.5 in ESOL 090 and ESOL 095 or score of P in NCEL 030 and NCEL 033
- Placement Score: Writing Level 2 from NexGen WRITE Placer test or Placement Score of Reading Level 2 and Writing Level 2 from NexGen READ and WRITE Placer tests or NCEL 033 or ESOL 098 or ESOL 099 concurrent.
- Course Note: For any questions, please contact the Job Training Center at 517-483-1857. Cost of this class is \$425.

Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCEL 170 ESOL for Business

Credit Hours: 0 / Billing Hours: 0

This 8-week non-credit course focuses on vocabulary specifically used in business. The vocabulary is essential for students planning to work in a business-related field. The course also explores various careers in business, with an emphasis on short-term certificate programs that lead to employment in one-to-two semesters. This course is accelerated, using lecture and online instruction. Students will expand their vocabulary-building skills and improve their reading strategies, reading and listening comprehension, speaking skills, and writing skills. Audio equipment and computers are available to aid students in building fluency. Students are expected to work 4-6 hours/week in addition to class time.

- Prerequisite Course: None.
- Placement Score: Score of P in NCEL 034 + Placement Score of Writing Level 2 from NexGen WRITE Placer test or Placement Score of Reading Level 2 and Writing Level 2 from NexGen READ and WRITE Placer tests or NCEL 034 concurrent.

NCHE 102 AHA BLS Provider CPR

Credit Hours: 0 / Billing Hours: 0

This non-credit American Heart Association (AHA) seminar is designed to provide healthcare professionals the ability to recognize several life-threatening emergencies, provide Basic Life Support (BLS) also known as CPR, use an AED with BVM, how to work as a team, and choking management. The seminar is intended for individuals working or planning to work in the healthcare profession, and was formerly called CPR for Healthcare Professionals. This course meets the needs for anyone needing a BLS Provider CPR certification. Persons wishing to be certified must pass both the physical skills and written test sessions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: Cost of this seminar is \$95.00. If you have any questions, call Continuing Education at 517-483-1415.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCHE 227 Health Special Topics

Credit Hours: 0 / Billing Hours: 0

This course offers students the opportunity to learn new health career skills and knowledge. Specific up-to-date content will vary with each topic presented. (Offered Fall, Spring, Summer)

- Prerequisite Course: Determined by Section

NCJT 100 Non-Credit Software and Tech

Credit Hours: 0 / Billing Hours: 0

Training in this series will focus on computers, software, and Information Technology (IT)

NCJT 200 Business and Management

Credit Hours: 0 / Billing Hours: 0

Training in this series will cover topics in business, management, and entrepreneurship.

NCLD 210 Leadership Practicum I

Credit Hours: 0 / Billing Hours: 0

This non-credit course provides an opportunity for Student Leadership Academy members to apply leadership skills in on-campus and community service settings. The practicum includes a minimum of 30 hours of volunteer service with a community agency of the student's choice, serving on college committees, and participation in other assigned Student Leadership Academy events and activities. Students will develop practical skills in servant leadership and evaluate their experiences as they relate to academic, professional, and personal goals. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (LEAD 110 and LEAD 111).
- Placement Score: None.

NCLD 211 Leadership Practicum II

Credit Hours: 0 / Billing Hours: 0

This non-credit course provides an opportunity for Student Leadership Academy members to apply leadership skills in on-campus and community service settings. The practicum includes a minimum of 30 hours of volunteer service with a community agency of the student's choice, serving on college committees, and participation in other assigned Student Leadership Academy events and activities. Students will develop practical skills in servant leadership and evaluate their experiences as they relate to academic, professional, and personal goals. (Offered Spring)

- Prerequisite Course: P (Pass) in NCLD 210.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCMA 101 Math Refresher

Credit Hours: 0 / Billing Hours: 0

Refresher workshop for students who place below college level math and wish to review the mathematical concepts. The goal of this workshop course is to prepare students to retake the Accuplacer test so that they might improve their placement Math Level. An online learning platform will be utilized to determine the individualized content for each student. Problem solving and test taking strategies will be included. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

NCMA 110 Fundamentals of Mathematics

Credit Hours: 0 / Billing Hours: 0

This course provides instruction in the skills needed to provide the foundation for success in transferable math courses, specifically MATH 120, MATH 119, STAT 170. Topics include operations with fractions, integers, percentages, scientific notation, exponents, and order of operations; properties of algebraic equations, graphs, formulas. In addition, students are introduced to mathematical concepts taught in the above college math courses. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 2 and (BSM1/CPT Arithmetic 20-76 or ACM1/Accuplacer Arithmetic 200-300 or ACM2/QRAS 200-240 or A02/ACT Math 1-14 or S12/SAT Math 200-390 or PS12/PSAT Math 200-390).
- Course Note: This course requires students to be on-campus for a minimum of one additional day to complete assessment work in the Open Learning Space. The Open Learning Space is available at least three days a week each semester.

NCRW 100 Foundations for Success

Credit Hours: 0 / Billing Hours: 0

Designed to teach essential reading and writing skills and to introduce the student to the foundations of a successful student life. Also serves to prepare students for high school completion exams. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval Required.
- Placement Score: Reading Level 1 and Writing Level 1.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NCRW 101 Reading and Writing Refresher Credit Hours: 0 / Billing Hours: 0

The purpose of this non-credit refresher is to prepare students to retake the placement tests for Reading and Writing. The course includes a review of essential reading and writing skills, focusing on main idea, supporting details, inferences, organizational patterns, topic sentences, thesis statements, paragraph and essay unity, and support for conclusions. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.

NDXT 100 Neuroanatomy and Physiology Credit Hours: 3 / Billing Hours: 0

This course provides an introduction to neuroanatomy and physiology necessary for working in the diverse field of Neurodiagnostics. Students will discuss the structures and functions of the Nervous System. Topics include the Central Nervous System, Peripheral Nervous System, and blood supply. (Offered Fall)

- Prerequisite Course: None. Admission to the Neurodiagnostic Technology Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: NDXT 101 and NDXT 102 and NDXT 120.

NDXT 101 Neurodiagnostic Procedures Credit Hours: 3 / Billing Hours: 0

This course provides an introduction to the routine Neurodiagnostic testing procedures performed. Students will discuss the Scope of Practice specific to the Neurodiagnostic Technologist. Topics will include medical terminology, diagnostic procedures, and common neurological disorders. (Offered Fall)

- Prerequisite Course: None. Admission to the Neurodiagnostic Technology Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: NDXT 100 and NDXT 102 and NDXT 120.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NDXT 102 EEG Applications

Credit Hours: 3 / Billing Hours: 0

This course provides the basic skills necessary to accurately measure and apply electrodes. Students will discuss the standards for electrode placement based on the International 10-20 System of Electrode Placement. Topics will include skin preparation, skin safety, and modification techniques. (Offered Fall)

- Prerequisite Course: None. Admission to the Neurodiagnostic Technology Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: NDXT 100 and NDXT 101 and NDXT 120.

NDXT 120 EEG Pre-Clinical Preparation

Credit Hours: 3 / Billing Hours: 0

This course prepares the EEG student for safe participation in clinical education within a Neurodiagnostic department. Students will explore and discuss the importance of patient safety, patient assessment, and equipment placement. While most of the course is delivered online, students will practice and master various procedures in a scheduled laboratory setting. (Offered Fall)

- Prerequisite Course: None. Admission to the Neurodiagnostic Technology Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: NDXT 100 and NDXT 102 and NDXT 120.

NDXT 130 Principles of EEG

Credit Hours: 2 / Billing Hours: 0

This course explores the history of electroencephalograms (EEG). Students will discuss the use of EEG's in the diagnosis of neurological diseases. Topics will include the national competency standards for performing EEG's, fundamentals of patient care, and HIPAA compliance. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 100 and NDXT 101 and NDXT 102 and NDXT 120).
- Placement Score: None.
- Corequisite Course: NDXT 131 and NDXT 132 and NDXT 220.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NDXT 131 Electricity Principles/Safety Credit Hours: 1 / Billing Hours: 0

This course familiarizes the Neurodiagnostic student with the principles of electricity and electrical safety. Students will discuss digital EEG, EEG recordings, and the digital EEG display. Topics will include risks related to current, grounding, and factors contributing to electrical injury. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 100 and NDXT 101 and NDXT 102 and NDXT 120).
- Placement Score: None.
- Corequisite Course: NDXT 130 and NDXT 132 and NDXT 220.

NDXT 132 EEG Instrumentation I Credit Hours: 2 / Billing Hours: 0

This course provides a foundation for EEG instrumentation. Students will discuss the basic requirements of the EEG system. Topics will include amplifier settings, filters, chart speeds, calibration methods, system selections, and post-acquisition setting adjustments. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 100 and NDXT 101 and NDXT 102 and NDXT 120).
- Placement Score: None.
- Corequisite Course: NDXT 130 and NDXT 131 and NDXT 220.

NDXT 200 EEG Procedures & Pathology I Credit Hours: 1 / Billing Hours: 0

This course explores the normal EEG patterns in adults, during both awake and sleep cycles. Students will discuss the normal EEG variants. Topics will include waveform descriptions and medication effects on the EEG. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 130 and NDXT 131 and NDXT 132).
- Placement Score: None.
- Corequisite Course: NDXT 201 and NDXT 202.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NDXT 201 EEG Instrumentation II

Credit Hours: 2 / Billing Hours: 0

This course provides the EEG student with the technical skills needed to analyze waveforms and polarity. Students will discuss techniques needed to improve EEG recording quality. Topics will include recording annotations, patient considerations based on specific need, and challenges of performing bedside procedures. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 130 and NDXT 131 and NDXT 132).
- Placement Score: None.
- Corequisite Course: NDXT 200 and NDXT 202.

NDXT 202 EEG Quality Control

Credit Hours: 1 / Billing Hours: 0

This course explores the physiological and non-physiological artifacts found in routine EEG recordings. Students will discuss the factors that contribute to artifacts and troubleshoot the ways to eliminate them. Topics will include impedance and common mode rejection (CMR). (Offered Spring)

- Prerequisite Courses: Minimum 2.5 in (NDXT 130 and NDXT 131 and NDXT 132).
- Placement Score: None.
- Co-requisite Courses: NDXT 200 and NDXT 201.

NDXT 220 EEG Clinical Practice I

Credit Hours: 3 / Billing Hours: 0

This is the first in a series of two clinical courses that provides the necessary supervised clinical education needed for the EEG student to competently perform routine procedures and recognize patient considerations that affect diagnosis. Emphasis will be placed on patient safety and comfort while professional values, attitudes, and behaviors are upheld. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (NDXT 200 and NDXT 201 and NDXT 202).
- Placement Score: None.
- Corequisite Course: NDXT 130 and NDXT 200.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NDXT 221 EEG Clinical Practice II Credit Hours: 3 / Billing Hours: 0

This is the second course in a series of two clinical courses that provides the necessary supervised clinical education needed for the EEG student to competently perform routine procedures and recognize patient considerations that affect diagnosis. Emphasis will be placed on patient safety and comfort while professional values, attitudes, and behaviors are upheld. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in NDXT 220.
- Placement Score: None.
- Corequisite Course: NDXT 230 and NDXT 231 and NDXT 232.

NDXT 230 EEG Procedures & Pathology II Credit Hours: 1 / Billing Hours: 0

This course provides the EEG student with skills to recognize EEG patterns related to seizures. Students will discuss the International Classification of Seizures and Information. Topics will include seizure classification, treatment, and seizure protocols. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in NDXT 200.
- Placement Score: None.
- Corequisite Course: NDXT 221 and NDXT 231.

NDXT 231 EEG Procedures & Pathology III Credit Hours: 1 / Billing Hours: 0

This course provides EEG students with skills to recognize EEG patterns related to seizures. This course familiarizes EEG students with the common neurological disorders found on electroencephalogram. Students will discuss the signs and symptoms related to various neurological disorders. Topics will include EEG patterns, diagnostic procedures, and patient considerations. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in NDXT 200.
- Placement Score: None.
- Corequisite Course: NDXT 221 and NDXT 230.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NDXT 232 EEG Procedures & Pathology IV Credit Hours: 1 / Billing Hours: 0

This course familiarizes EEG students with the skills needed to perform procedures on neonates and pediatric patients. Students will discuss the special considerations needed working with neonates and pediatric patients. Topics will include EEG patterns specific to age group, physiological variables, and challenges of working in critical care departments. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in NDXT 231.
- Placement Score: None.
- Corequisite Course: NDXT 221

NURS 101 Nursing Directed Study Credit Hours: 0.25 to 3 / Billing Hours: 0.25 to 6

This course is designed to update or enhance knowledge, skills, and competencies for: returning Nursing students, remediation, self-study, lecture/lab sessions, and/or supervised clinical. The course's foundation is based on the six Aims for Improvement of Quality Healthcare. A learning contract specifying objectives, activities and outcomes is required. (Offered As Needed)

- Prerequisite Course: None. Program Approval is required.
- Placement Score: Determined by Section.

NURS 119 Special Topics in Nursing Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

Nursing Special Topics offer students the opportunity to practice and gain support for new nursing skills and knowledge. The foundation of this course is based on the six Aims for Improvement of Quality Healthcare. Specific up-to-date content will vary with each seminar and will be related to the nursing profession. (Offered As Needed)

- Prerequisite Course: Determined by Section.
- Placement Score: Determined by Section.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NURS 200 Nursing Pharmacology

Credit Hours: 3 / Billing Hours: 3.5

NURS 200 provides nursing students with fundamental knowledge of pharmacology and the implications for nursing including assessment, teaching, monitoring and dosage calculation for patients across the lifespan. The focus is on commonly used drug classes and prototypes. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in [BIOL 202 and (MATH 119 or higher or STAT 170 or STAT 215 or Math Level noted below)].
- Placement Score: Math Level 6.

NURS 201 Patient-Centered Care

Credit Hours: 3 / Billing Hours: 3

NURS 201 introduces students to a model of health care in which patients and their families are acknowledged and valued for their unique attributes. Concepts of development, family dynamics, and adaptation to stress are presented. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.5 in [(MATH 119 or higher or STAT 170 or STAT 215) or concurrently or Math Level noted below].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.
- Course Note: Students are required to attend four exams and one three-hour Communication Lab in-person on LCC's downtown campus. Additional information will be provided via D2L by the instructor the first week of class.
- \$23 of the course fee is non-refundable.

NURS 210 Transition to Prof Nursing

Credit Hours: 6 / Billing Hours: 10.5

The Transition Course introduces licensed paramedics, practical nurses, and respiratory therapists to the role of the professional nurse. The course builds on basic concepts to care for adult patients with common acute and chronic health problems. Clinical experiences will help students refine focused assessment and psychomotor skills in a variety of settings. (Offered Summer)

- Prerequisite Course: Minimum 3.0 in NURS 201 within 2 years of Nursing application. Admission to the Nursing Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: NURS 212.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

- Course Note: \$943 of the course fee is for medical supplies and is non-refundable.

NURS 211 Intro to Nursing Practice

Credit Hours: 8 / Billing Hours: 13.25

Introduces the role of the nurse as a member of the healthcare team focusing on basic care concepts addressing human needs. Nursing process is presented as a framework for the provision of safe patient care. Clinical experiences facilitate the development of assessment and beginning psychomotor skills. (Offered Fall, Spring)

- Prerequisite Course: None. Admission to the Nursing Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: NURS 212.
- Course Note: \$1,252 of the course fee is for medical supplies and is non-refundable.

NURS 212 Concepts of Pharmacology

Credit Hours: 3 / Billing Hours: 3.5

Provides nursing students with fundamental knowledge of pharmacology and the implications for nursing, including assessment, teaching, monitoring and dosage calculation for patients across the lifespan. The focus is on commonly used drug classes and prototypes. (Offered Fall, Spring)

- Prerequisite Course: None. Admission to the Nursing Program is required.
- Placement Score: Reading Level 5 and Writing Level 6.
- Corequisite Course: NURS 210 or NURS 211.

NURS 221 Nursing Practice I

Credit Hours: 6 / Billing Hours: 10.75

Builds on basic concepts to care for adult patients with common acute and chronic health problems. Clinical experiences will help students refine focused assessment skills and psychomotor skills. Students will practice in a variety of healthcare and community-based settings. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Successful completion of Level I of the 2-Year or 2nd Degree Nursing program tracks is required.
- Placement Score: None.
- Course Note: \$162 of the course fee is for medical supplies and is non-refundable.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NURS 222 Childbearing Families

Credit Hours: 4 / Billing Hours: 5.5

Introduces concepts related to the child-bearing family. Emphasis is on health promotion, reproduction, sexual health, newborn assessment and care, and child growth and development. Clinical experiences promote the development of knowledge, skills, and attitudes to provide family-centered care in a variety of settings. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Successful completion of Level I of the 2-Year or 2nd Degree Nursing program tracks is required.
- Placement Score: None.

NURS 231 Nursing Practice II

Credit Hours: 6 / Billing Hours: 10

Builds on complex acute and chronic health concepts to provide collaborative care for adults with multi-system, emergent, and complex mental health problems. Clinical experiences help students refine nursing judgment skills. Students practice in a variety of inpatient acute care and community settings. (Offered Fall, Spring)

- Prerequisite Course: None. Successful completion of Level II of the 2-year or 2nd Degree Nursing Tracks is required.
- Placement Score: None.
- Course Note: \$179 of the course fee is for medical supplies and is non-refundable.

NURS 232 Children and Their Families

Credit Hours: 4 / Billing Hours: 5.5

Focuses on collaborative care for children with commonly occurring and complex health problems. Students will practice in a variety of health care and community-based settings and collaborate with the inter-professional health team to provide safe, family-centered care. (Offered Fall, Spring)

- Prerequisite Course: None. Successful completion of Level II of the 2-year or 2nd Degree Nursing Tracks is required.
- Placement Score: None.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

NURS 241 Nursing Practice III

Credit Hours: 6 / Billing Hours: 11.75

Synthesizes professional nursing concepts within a seminar format. Intensive clinical experience helps students apply nursing judgment and practice leadership and management skills in collaboration with the inter-professional team. (Offered Fall, Spring)

- Prerequisite Course: None. Successful completion of Level III of the 2-year or 2nd Degree or Advanced Standing Nursing Tracks is required.
- Placement Score: None.
- Course Note: \$75 of the course fee is for medical supplies and is non-refundable.

NURS 242 Professional Practice

Credit Hours: 2 / Billing Hours: 2

Focuses on the principles of leadership and management as they apply to coordination of care and the professional roles of the nurse. Examination of healthcare systems, legal regulations, and quality improvement will guide the student to apply delegation and supervision skills in their transition to practice. (Offered Fall, Spring)

- Prerequisite Course: None. Successful completion of Level III of the 2-year or 2nd Degree or Advanced Standing Nursing Tracks is required.
- Placement Score: None.

PARA 200 Paramedic Directed Study

Credit Hours: 1 to 4 / Billing Hours: 1 to 7

Provides selection of content from the Basic EMT or Paramedic curriculum to update or enhance current knowledge and skill for returning students and health care professionals. Through evaluation of previous learning, examinations, self-study, and scheduling into needed lectures and labs students are advanced placed or readmitted into the Basic EMT or Paramedic program. (Offered As Needed)

- Prerequisite Course: None. Program Approval required.
- Placement Score: Determined by section.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 221 Paramedic Medical Trauma I Credit Hours: 3.75 / Billing Hours: 3.75

This course provides information about the pre-hospital management of medical and traumatic conditions at the advanced life support level. Emphasis is placed on pathophysiology, recognition of signs and symptoms, review of basic life support management techniques, and strategies for advanced life support care. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in [BIOL 145 or (BIOL 201 and BIOL 202)]. Admission to Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Corequisite Course: PARA 231 and PARA 241.

PARA 221A Paramedic Medical Trauma IA Credit Hours: 2 / Billing Hours: 2

This course, the first of two modules, provides information about the pre-hospital management of medical and traumatic conditions at the advanced life support level. Emphasis in this module is on the role and responsibilities of an advanced life support provider. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

PARA 221B Paramedic Medical Trauma IB Credit Hours: 2 / Billing Hours: 2

This course, the second of two modules, provides information about the pre-hospital management of medical and traumatic conditions at the advanced life support level. Emphasis in this module is on foundational topics for advanced practice of airway and IV therapy. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 222 Paramedic Medical Trauma II

Credit Hours: 4 / Billing Hours: 4

PARA222 incorporates previous knowledge gained at the basic EMT level and PARA221.

Provides material for management of prehospital emergencies including assessment and management of neurological, behavioral, abdominal, metabolic, geriatric, and multiple trauma patients. The principles of triage, management of mass casualty incidents, and telecommunications are also included. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in PARA 221.
- Placement Score: None.
- Corequisite Course: PARA 232 and PARA 242.

PARA 222A Paramedic Medical Trauma IIA

Credit Hours: 1 / Billing Hours: 1

The PARA222 modules incorporate previous knowledge gained at the basic EMT level and PARA221. This course, the first of three modules, provides material for management of pre-hospital emergencies as an advanced life support provider. Emphasis in this module is a review of anatomy/physiology, triage, stress management, and rescue operations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to Military Medic Program is required.
- Placement Score: None.

PARA 222B Paramedic Medical Trauma IIB

Credit Hours: 1 / Billing Hours: 1

The PARA222 modules incorporate previous knowledge gained at the basic EMT level and PARA221. This course, the second of three modules, provides material for management of pre-hospital emergencies as an advanced life support provider. Emphasis in this module is on infectious disease, poisoning, and environmental emergencies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 222A.
- Placement Score: None.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 222C Paramedic Medical Trauma IIC Credit Hours: 2 / Billing Hours: 2

The PARA222 modules incorporate previous knowledge gained at the basic EMT level and PARA221. This last of three modules provides material for management of pre-hospital emergencies as an advanced life support provider. Emphasis in this module is on trauma care including soft tissue injuries and kinematics of trauma. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 222B.
- Placement Score: None.

PARA 231 Paramedic Cardiology I Credit Hours: 2.5 / Billing Hours: 2.5

This course provides the paramedic student with information about cardiovascular anatomy, physiology, and electrophysiology. Emphasis is placed on rhythm interpretation, recognition of life-threatening arrhythmias, electrical intervention and other prehospital patient management strategies. (Offered Fall)

- Prerequisite Course: None. Admission to Paramedic Program is required.
- Placement Score: None.
- Corequisite Course: PARA 221 and PARA 241.

PARA 231A Paramedic Cardiology IA Credit Hours: 1 / Billing Hours: 1

This course provides the paramedic student with information about cardiovascular anatomy, physiology, and electrophysiology. Emphasis is placed on rhythm interpretation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: None.

PARA 231B Paramedic Cardiology IB Credit Hours: 1.5 / Billing Hours: 1.5

This course is a continuation of Cardiology IA. Emphasis is placed on rhythm interpretation, recognition of life threatening arrhythmias, electrical intervention and other prehospital patient management strategies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 231A.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 232 Paramedic Cardiology II Credit Hours: 2.5 / Billing Hours: 2.5

Builds on information learned in PARA231 as a basis for more advanced arrhythmia interpretation. Management of cardiac arrest including medications, cardioversion, transcutaneous pacing, and defibrillation will be a major emphasis. Pacemakers, 12-lead ECG interpretation, and other advanced procedures, and arrhythmias will be presented. Application of theory, judgment, and decision-making strategies are evaluated. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in PARA 231.
- Placement Score: None.
- Corequisite Course: PARA 222 and PARA 242.

PARA 232A Paramedic Cardiology IIA Credit Hours: 1 / Billing Hours: 1

This module expands on information presented in PARA231 to cover more advanced arrhythmia interpretation. Management of cardiac arrest, including medications, cardioversion, transcutaneous pacing, and defibrillation will be a major emphasis. Pacemakers, 12-lead ECG interpretation, and other advanced procedures, and arrhythmias will be presented. Application of theory, judgment, and decision-making strategies are evaluated. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 231B.
- Placement Score: None.

PARA 232B Paramedic Cardiology IIB Credit Hours: 1.5 / Billing Hours: 1.5

This course is a continuation of Cardiology IIA, building on information learned in PARA231 as a basis for more advanced arrhythmia interpretation. Management of cardiac arrest including medications, cardioversion, transcutaneous pacing, and defibrillation will be a major emphasis. Pacemakers, 12-lead ECG interpretation, and other advanced procedures, and arrhythmias will be presented. Application of theory, judgment, and decision-making strategies are evaluated. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 232A.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 241 Paramedic Pharmacology I

Credit Hours: 2.5 / Billing Hours: 2.5

Provides the student with information necessary for the preparation, calculation of doses, and administration of drugs used in the prehospital setting, including classification, action, use, and side effects. Information about other commonly prescribed drugs is also provided. (Offered Fall)

- Prerequisite Course: None. Admission to Paramedic Program is required.
- Placement Score: None.
- Corequisite Course: PARA 221 and PARA 231.

PARA 241A Paramedic Pharmacology IA

Credit Hours: 1 / Billing Hours: 1

One of two modules which provides the student with information necessary for the preparation, calculation of doses, and administration of drugs used in the prehospital setting, including classification, action, use, and side effects. This module focuses on core concepts including routes, calculations, equipment, and standards. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: None.

PARA 241B Paramedic Pharmacology IB

Credit Hours: 1.5 / Billing Hours: 1.5

One of two modules which provides the student with information necessary for the preparation, calculation of doses, and administration of drugs used in the prehospital setting, including classification, action, use, and side effects. This module focuses on pharmacokinetics/pharmacodynamics of medications and integration into patient care. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 242 Paramedic Pharmacology II

Credit Hours: 2.5 / Billing Hours: 2.5

This course provides the paramedic student with additional in-depth information on Advanced Cardiac Life Support drugs including classification, action, use, and side effects. Information about other commonly used and prescribed drugs is also provided. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in PARA 241.
- Placement Score: None.
- Corequisite Course: PARA 222 and PARA 232.

PARA 242A Paramedic Pharmacology IIA

Credit Hours: 1 / Billing Hours: 1

One of two modules that provides the paramedic student with additional in-depth information on Advanced Cardiac Life Support drugs including classification, action, use, and side effects. Focus of this module is linking medication with patient condition. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 241B.
- Placement Score: None.

PARA 242B Paramedic Pharmacology IIB

Credit Hours: 1.5 / Billing Hours: 1.5

One of two modules that provides the paramedic student with additional in-depth information on Advanced Cardiac Life Support drugs including classification, action, use, and side effects. Focus of this module is developing management plans for patient care. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 242A.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 251 Paramedic Skills I

Credit Hours: 2.5 / Billing Hours: 7.5

Provides introduction of paramedic skills required for advanced life support and provides the opportunity to apply theory to field practice in a discussion and skills lab setting. Skills will be demonstrated, practiced during supervised labs, and tested for competency. Students are also evaluated in the management of simulated emergencies. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (PARA 221 and PARA 231 and PARA 241) or concurrently. Program approval is required.
- Placement Score: None.
- Corequisite Course: PARA 261.

PARA 251A Paramedic Skills IA

Credit Hours: 1 / Billing Hours: 3

One of two modules which provides introduction of paramedic skills required for advanced life support and provides the opportunity to apply theory to field practice in a discussion and skills lab setting. Skills will be demonstrated, practiced during supervised labs, and tested for competency. Students are also evaluated in the management of simulated emergencies. Focus in this module is on basic life support skills review/testing/remediation, IV skills, and injections. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: None.

PARA 251B Paramedic Skills IB

Credit Hours: 1.5 / Billing Hours: 4.5

One of two modules which provides introduction of paramedic skills required for advanced life support and provides the opportunity to apply theory to field practice in a discussion and skills lab setting. Skills will be demonstrated, practiced during supervised labs, and tested for competency. Students are also evaluated in the management of simulated emergencies. Focus in this module is on advanced airway techniques, cardiac arrhythmia monitoring, and simulations. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Admission to the Military Medic to Paramedic Program is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 252 Paramedic Skills II

Credit Hours: 2.5 / Billing Hours: 7.5

This course is a continuation of Skills I with the introduction of additional skills and continued application of theory. Measurement criteria for skills competencies becomes more stringent and students must become competent in all paramedic skills in preparation for the field internship component. Students are also evaluated in the management of simulated emergencies. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in PARA 251.
- Placement Score: None.
- Corequisite Course: PARA 262.

PARA 252A Paramedic Skills IIA

Credit Hours: 1 / Billing Hours: 3

One of two modules which provide continuation of Skills I with the introduction of additional skills and continued application of theory. Measurement criteria for skills competencies becomes more stringent and students must become competent in all paramedic skills in preparation for the field internship component. Students are also evaluated in the management of simulated emergencies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 251B.
- Placement Score: None.

PARA 252B Paramedic Skills IIB

Credit Hours: 1.5 / Billing Hours: 4.5

This course is a continuation of Skills IIA. Measurement criteria for skills competencies becomes more stringent and students must become competent in all paramedic skills in preparation for the field internship component. Students are also evaluated in the management of simulated emergencies. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 252A.
- Placement Score: None.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 261 Paramedic Clinical I

Credit Hours: 2.5 / Billing Hours: 4

The first of two courses that provide clinical experience for paramedic students in hospital units such as the emergency department, critical care units, obstetrics, and pediatrics; and designated EMS agencies under the supervision of licensed paramedics and clinical faculty. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (PARA 221 and PARA 231 and PARA 241) or concurrently. Program approval is required.
- Placement Score: None.
- Corequisite Course: PARA 251.

PARA 262 Paramedic Clinical II

Credit Hours: 2.75 / Billing Hours: 4

The second of two courses that provide clinical experience for paramedic students in hospital units such as emergency department, critical care units, obstetrics, and pediatrics; and designated EMS agencies under the supervision of licensed paramedics and clinical faculty. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in PARA 261.
- Placement Score: None.
- Corequisite Course: PARA 252.

PARA 262A Paramedic Clinical IIA

Credit Hours: 1 / Billing Hours: 1

This course provides clinical experience for paramedic students in areas including hospital units such as emergency departments, and designated EMS agencies under the supervision of licensed paramedics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 261.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PARA 262B Paramedic Clinical IIB

Credit Hours: 1 / Billing Hours: 1

This course provides clinical experience for paramedic students in areas including hospital units such as critical care units, surgery, and designated EMS agencies under the supervision of licensed paramedics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 262A.
- Placement Score: None.

PARA 262C Paramedic Clinical IIC

Credit Hours: 1 / Billing Hours: 1

This course provides clinical experience for paramedic students in areas including hospital units such as obstetrics, pediatrics, and designated EMS agencies under the supervision of licensed paramedics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 3.0 in PARA 262B.
- Placement Score: None.

PARA 263 Paramedic Internship

Credit Hours: 4 / Billing Hours: 4

This course provides a field internship with a paramedic-level EMS agency. Students are assigned to a paramedic preceptor to provide patient care and other professional duties with continuous evaluation of the student's progress. Oversight is provided by the program clinical coordinator and program director. Successful completion of all Paramedic program courses qualifies the student to take the National Registry of Emergency Medical Technicians (NREMT) certification exam, then apply for state licensure as a Paramedic upon passing exam. (Offered Summer)

- Prerequisite Course: Minimum 3.0 in [PARA 222 and PARA 232 and PARA 242 and PARA 252 and PARA 262].
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFFT 100 Total Fitness A-Fitness

Credit Hours: 2 / Billing Hours: 3

Total Fitness A encompasses fitness, nutrition, health, exercise and cognition, and wellness principles, with emphasis on physical fitness, including cardiovascular fitness, strength, and flexibility. Students will complete an assessment measuring aerobic fitness, strength, and flexibility. With instructor supervision, students will develop and participate in a personal exercise plan. This course features flexibility of attendance. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: This is an open workout class. Students may attend at the Downtown or West Campus Fitness Center. Cannot be taken during the same semester with PFFT 101, PFFT 102, or PFFT 109. Students must log into D2L and complete a course orientation and orientation quiz before their first visit to the Fitness Center.

PFFT 101 Total Fitness B-Nutrition

Credit Hours: 2 / Billing Hours: 3

Total Fitness B encompasses fitness, health, exercise and cognition, and wellness principles with emphasis on nutrition and healthy eating choices. Students will complete a physical fitness assessment and develop and participate in a personal exercise plan. Healthy meal planning will be included. This course features flexibility of attendance. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: This is an open workout class. Students may attend at the Downtown or West Campus Fitness Center. Cannot be taken during the same semester with PFFT 100, PFFT 102, or PFFT 109. Students must log into D2L and complete a course orientation and orientation quiz before their first visit to the Fitness Center.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFFT 102 Total Fitness C-Weight Control

Credit Hours: 2 / Billing Hours: 3

Total Fitness C encompasses fitness, health, exercise and cognition, and wellness principles with an emphasis on weight management: loss, gain or maintenance. Students will complete a physical fitness assessment and will develop and participate in a personal exercise plan. This course features flexibility of attendance. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: This is an open workout class. Students may attend at the Downtown or West Campus Fitness Center. Cannot be taken during the same semester with PFFT 100, PFFT 101, or PFFT 109. Students must log into D2L and complete a course orientation and orientation quiz before their first visit to the Fitness Center.

PFFT 109 Introduction to Fitness

Credit Hours: 1 / Billing Hours: 2

Introduction to Fitness is designed to introduce general fitness and wellness concepts to students. With supervision of an instructor, students will develop and participate in exercise plans tailored to their individual needs. This course features flexibility of attendance and modular teaching. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.
- Course Note: This is an open workout class. Students may attend at the Downtown or West Campus Fitness Center. Cannot be taken during the same semester with PFFT 100, PFFT 102, or PFFT 109. Students must log into D2L and complete a course orientation and orientation quiz before their first visit to the Fitness Center.

PFFT 113 Core Strength & Flexibilty Trng

Credit Hours: 1 / Billing Hours: 2

This course combines core training and flexibility exercises. Students will use calisthenics and floor exercises to improve muscle strength, increase flexibility, and develop core strength (back and abdominal muscles). Proper flexibility techniques and exercises will be emphasized. Students will experience a total body workout utilizing all major muscle groups. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFFT 114 Police Academy Fitness Trng Credit Hours: 2 / Billing Hours: 3

This course is designed for Law Enforcement students to incorporate strength conditioning, muscle endurance, flexibility, exercise and cognition, and cardiovascular training for a total body workout. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

PFFT 119 Fire Academy Fitness Training Credit Hours: 3 / Billing Hours: 4

This course provides Fire Academy students with techniques and practice to improve and maintain a high degree of physical fitness necessary to meet the demands of their profession. (Offered Fall, Spring)

- Prerequisite Course: None. Admission to Fire Academy is required.
- Placement Score: None.
- Corequisite Course: FIRE 101 and FIRE 102.

PFFT 170 Yoga: Beginning Credit Hours: 1 / Billing Hours: 2

This course is an introduction to yogic breathing and yogic stretching exercises with emphasis on relaxation and meditation. Yoga postures will be utilized to reduce stress and tension. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

PFFT 181 Lineworker Fitness A Credit Hours: 1 / Billing Hours: 2

This course combines weight machines, core training, interval training and flexibility training to increase overall fitness for pole climbing. Proper technique will be emphasized to ensure safety and continued progress. There will be initial fitness testing and students will be responsible for tracking their progress. (Offered Summer)

- Prerequisite Course: None. Program Approval required for Acceptance into the Electrical Utility/Lineworker Curriculum.
- Placement Score: Reading Level 3 and Writing Level 2.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFFT 182 Lineworker Fitness B

Credit Hours: 1 / Billing Hours: 2

Students will establish and/or build upon foundational fitness levels tested at the beginning of the course and begin to transition to obtaining more muscular and cardiovascular endurance. The class will also introduce basic knowledge of nutrition and the importance of hydration. (Offered Fall)

- Prerequisite Course: Minimum 3.0 in PFFT 181 or 2 minutes or better on LPAT score.
- Placement Score: Reading Level 3 and Writing Level 2.

PFFT 183 Lineworker Fitness C

Credit Hours: 2 / Billing Hours: 4

Students will continue to work on increasing muscular and cardiovascular endurance. Students will be expected to improve on all fitness levels tested at the beginning of the course and perform an advanced cardiovascular endurance test on Jacobs Ladder. This course will prepare students for the 10-week climbing school. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.
- Recommended: Minimum 3.0 in PFFT 182.

PFHW 120 Health and Wellness for Police

Credit Hours: 0.5 / Billing Hours: 0.5

This course introduces the student to health-related topics, including physical fitness, nutrition, stress management, and the prevention of lifestyle-related illness. (Offered Fall, Spring)

- Prerequisite Course: None. Admission to the Mid-Michigan Police Academy is required.
- Placement Score: None.

PFHW 123 Human Nutrition

Credit Hours: 3 / Billing Hours: 3

An introductory course in human nutrition. Topics include digestion, absorption, metabolism, and biological functions of nutrients; nutrition needs throughout the life cycle; relationship of nutrition and eating patterns to health and disease; individual and societal influences on food choices; and the role of government in food safety and security. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: BIOL 145 or equivalent.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFHW 163 Healthy Lifestyles

Credit Hours: 2 / Billing Hours: 3

This course introduces the student to lifestyle skills that lead to better health. The student will learn healthy nutritional habits, basic fitness concepts, positive stress reduction, and development of a personalized healthy lifestyle plan. Assessment skills and wellness concepts will be put into practice. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PFHW 181 Stress Management

Credit Hours: 1 / Billing Hours: 1

This course helps students understand the basic components of the stress response and how they limit our physical, mental and emotional well-being. Students learn and apply basic principles that help to resolve stressful situations and lead to a greater sense of ease and pleasure in life, work and relationships. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 4 and Writing Level 4.

PFKN 106 Group Fitness Instructor Prep

Credit Hours: 3 / Billing Hours: 4

This course prepares students to take a national Group Fitness Instructor certification exam. Students will learn how to safely instruct a variety of fitness classes and how to modify exercises for special populations. Human anatomy, exercise physiology, class design, cueing, injury prevention, and safe exercise techniques will be covered. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.

PFKN 170 Foundations of Kinesiology

Credit Hours: 3 / Billing Hours: 3

This course examines multiple aspects of the Kinesiology discipline and profession. This course reviews concepts in each major discipline and theoretical concepts of kinesiology as it impacts professional careers, research, and lifestyle. Current issues and historical perspectives related to the field will be presented. Kinesiology career preparation will be discussed. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: BIOL 145 or equivalent.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFKN 200 Exercise Physiology

Credit Hours: 3 / Billing Hours: 3

This course is designed to acquaint the student with physiological principles of training, exercise prescription, and the role of physical activity in health and disease. Both acute and chronic effects of exercise on various body systems will be discussed. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (BIOL 145) or [BIOL 201 and (BIOL 202 or concurrently)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

PFKN 201 Exercise Physiology Lab

Credit Hours: 1 / Billing Hours: 2

This course will explore theory and practices related to exercise testing and prescription. It will include practical experience in body composition techniques, muscle strength and endurance testing, flexibility testing and cardiovascular endurance testing. The results of the testing will be used to form appropriate exercise prescriptions according to the American College of Sports Medicine guidelines. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (BIOL 145) or [BIOL 201 and (BIOL 202 or concurrently)] and minimum 2.0 in (PFKN 200 or concurrently).
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

PFKN 205 Sport & Exercise Psychology

Credit Hours: 3 / Billing Hours: 3

This course will provide an overview of concepts and applied principles of sport and exercise psychology. Emphasis will be placed on the effect of psychological factors on performance and participation in sport and exercise settings, and the effect of participation in sport and exercise on personal growth and development. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PFKN 208 Biomechanics

Credit Hours: 3 / Billing Hours: 3

This course introduces students to the mechanical and anatomical principles that govern human motion. The student will understand the link between the structure of the human body and its function, especially as it applies to movement in exercise and sport. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [BIOL 145 or (BIOL 201 or concurrently)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.

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Online courses may require students to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) for proctored exams. For more information, please visit the [Course Testing webpage](#).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFKN 210 Athletic Training Principles

Credit Hours: 3 / Billing Hours: 4

This course is an overview of prevention, management, and rehabilitation as each relates to athletic injury. It also provides an examination of various techniques used for the assessment, treatments, and rehabilitation of athletic injuries. Other topics include legal implications for the athletic trainer, first aid principles, and taping procedures. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: BIOL 145 or equivalent.

PFKN 250 Measurements in Kinesiology

Credit Hours: 3 / Billing Hours: 4

This is an introductory course which examines materials and methods used for assessment and analysis within Kinesiology. Emphasis will be placed on procedures and tools used within the various sub-disciplines. Measurement and evaluation methods will address motor skills, physical fitness, and psychological components associated with physical fitness. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Recommended: PFKN 170.

PFKN 260 Growth and Motor Behavior

Credit Hours: 3 / Billing Hours: 3

This is a fundamental course which investigates the relationship between biological maturation and physical growth as it relates to motor performance and motor skills learning. The course will also cover fundamentals of motor learning, stages of skill acquisition, physical fitness, and motor abilities of children and youth. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: BIOL 145 or equivalent.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFKN 270 Personal Trainer Preparation

Credit Hours: 4 / Billing Hours: 5

This Personal Trainer Certification preparatory course provides students with the theoretical and practical skills required to take a national certification exam in order to enter the profession of personal training. Focal topics include basic human anatomy, exercise physiology, nutrition, exercise programming, client assessment, injury prevention, legal issues, and business management. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in [BIOL 145 or (BIOL 201 and BIOL 202)].
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Recommended: BIOL 201 and BIOL 202 for Kinesiology majors; BIOL 145 for non-Kinesiology majors.

PFKN 280 Kinesiology Internship

Credit Hours: 3 / Billing Hours: 3

This course provides students the opportunity to apply acquired academic knowledge and practical skills in a Kinesiology related worksite location. A minimum of 108 worksite hours are required. In addition, lecture topics will include workplace etiquette, professionalism, mentorship, diversity, time management, ethical and legal issues. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Program Approval required for worksite location and intern prerequisites and responsibilities.
- Placement Score: Reading Level 5 and Writing Level 6.

PFWT 112 Intro to Weight Training

Credit Hours: 1 / Billing Hours: 2

This basic resistance (weight) training course is designed to introduce resistance training and proper lifting techniques to students. Safety rules, proper use of equipment, and concepts of lifting will be emphasized. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PFWT 123 Weight Training I

Credit Hours: 2 / Billing Hours: 3

This course is designed to promote physical fitness through progressive resistance (weight) training. Instruction will include principles, methods and techniques of resistance training. Using this material, students will design their own program with emphasis on muscle strengthening, muscle endurance and weight reduction. Principles of proper body mechanics will be applied. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

PHIL 101 Introduction to Philosophy

Credit Hours: 3 / Billing Hours: 3

A survey introduction to the central topics, theories, and arguments from a range of philosophical traditions. Topics may include: theory of knowledge, the nature of truth and reality, science and technology, free will, the existence of god, the nature of consciousness, personal identity, moral responsibility, and the nature of justice. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: (Reading Level 5 and Writing Level 6) or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

PHIL 151 Intro to Logic & Critical Think

Credit Hours: 4 / Billing Hours: 4

Introduction to both informal and basic formal logic, including both deductive and inductive logic, validity (both formal and informal), soundness, informal fallacies, and an analysis of the pragmatic functions of language within argumentative speech and writing. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHIL 152 Introduction to Ethics

Credit Hours: 4 / Billing Hours: 4

Introduction to ethics, including an introduction to and evaluation of central normative ethical traditions, an introduction to basic metaethics, and a consideration of different areas of applied ethics. The course will include a consideration of cross-cultural material, when appropriate. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PHIL 211 Philosophy: Ancient & Medieval

Credit Hours: 4 / Billing Hours: 4

Surveys major developments in theories of knowledge, reality, ethics, and society, and their historical role in shaping cultures and human identity. Covers Chinese, Indian, Greek, Roman, Christian, Islamic, and European thought from mythic beginnings to the period of early scientific reasoning. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131.

PHIL 212 Philosophy: Modern & Contemporary

Credit Hours: 4 / Billing Hours: 4

Surveys major developments in theories of knowledge, reality, ethics, and society, and their historical role in shaping cultures and human identity. Covers European, Asian, African, Native American, and American pragmatic thought from the scientific revolution to the present. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ENGL 121 or ENGL 131.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHIL 215 Philosophy of Religion

Credit Hours: 3 / Billing Hours: 3

This course presents an analysis of central themes in religion using applied philosophical methods. Students will engage religious topics to analyze philosophical concerns related to topics such as metaphysics, epistemology, critical thinking, and ethics. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PHIL 265 Ethical Issues in Medicine

Credit Hours: 3 / Billing Hours: 3

This course will present some of the ethical dilemmas which arise in relation to health care and develop a framework for ethical decision-making with which to deal with these and other related problems. It is designed for both health care professionals and others who are interested in these issues. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PHOT 111 Digital Photography I

Credit Hours: 3 / Billing Hours: 3

An introduction to photographic technology on both a theoretical and practical level. The student will learn camera types and related equipment, exposure controls, creative controls, and beginning and intermediate digital darkroom skills including correcting and enhancing digital images and preparing files for output on printing devices using image editing. This course is the introductory course in the Photographic Imaging Technology Program. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3.
- Course Note:
 - o 1) This course is the first course in the Photography Degree sequence and also may be taken for personal interest. A manually-adjustable Digital SLR/or mirrorless camera capable of shooting raw format is required.
 - o 2) Adobe Lightroom software is used. Online, Hybrid, and ORT students are required to have semester-long access to Adobe Lightroom Classic to complete their assignments. Students have access to these in the Learning Commons Computer Lab located in the TLC building. See official syllabus.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHOT 113 Lighting Concepts and Applic

Credit Hours: 3 / Billing Hours: 3

Introduces the student to the fundamental concepts of photographic lighting for image capture in the studio and on location. Students will learn to apply their knowledge by identifying and solving common photographic lighting problems. Students will use professional continuous lighting equipment to produce images. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in PHOT 120.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: A manually-adjustable Digital SLR or mirrorless camera is required. See official syllabus.

PHOT 120 Still/Motion Capture & Editing

Credit Hours: 3 / Billing Hours: 3

An introduction to the fundamentals of capturing, editing, and outputting video footage and still images for a variety of visual applications. Students will learn to light, capture, edit, manipulate, and export visual content in a variety of formats for print, web and soft display. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in ARTS 102 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: ARTS 171.

PHOT 200 Content on the Go

Credit Hours: 3 / Billing Hours: 3

An intermediate hands-on experience in the capturing, editing, and outputting still and moving images for a variety of visual applications using mobile devices, for example, cell phones. Students will learn to capture, edit, and export visual content on mobile devices for usage in print, web, and soft display. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in (ARTS 171 and DMAC 132 and PHOT 120).
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: Each student must have their own personal Adobe Account with access to Adobe online software throughout the semester.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHYS 120 The Art of Physics

Credit Hours: 4 / Billing Hours: 5

This course reveals the wonders of the physical universe by giving students a basic understanding of motion, forces, acoustics, and optics. Designed for students in the Humanities; Art, Design & Multimedia; other non-science areas, or sonography. Extensive interactive activities and laboratory exercises supplement the course materials and instruction. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 105 or MATH 106) or P in (NCMA 106 or NCMA 110) or Math Level indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 4.
- Course Note: This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

PHYS 200 Intro to Applied Physics

Credit Hours: 4 / Billing Hours: 5

The basic principles of force, work, rate, resistance, energy, and power are applied to four systems: mechanical, fluid (liquids and gases), electrical, and thermal systems using unifying concepts through mathematical expressions. Activities and experiments explore physics behind real-world applications. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (MATH 109 or MATH 114) or Math Level indicated below.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHYS 221 Introductory Physics I

Credit Hours: 4 / Billing Hours: 6

First semester of algebra-based physics with laboratory, designed to present the fundamental principles of physics, with applications. Topics in mechanics include one- and two-dimensional kinematics, forces, energy and work, momentum and impulse, circular motion and rotational dynamics, conservation laws, and elasticity. Experiments and hands-on activities are integrated with lecture topics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 126 or MATH 141) or concurrently or Math Level 9 noted below.
- Placement Score: Reading Level 5 and Writing Level 6 and Math Level 9.
- Course Note: The PHYS221/222 courses are often taken by students going into fields of study related to health, the life sciences, and architecture.

PHYS 222 Introductory Physics II

Credit Hours: 4 / Billing Hours: 6

Second semester continuation of algebra- and trigonometry-based physics with laboratory, designed to present the fundamental principles of physics, with applications. Topics include simple harmonic motion, waves, sound, light, wave and geometric optics, and electricity and magnetism, including circuits. Experiments and hands-on activities are integrated with the lecture topics. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in PHYS 221 or Department Approval.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: The PHYS221/222 courses are often taken by students going into fields of study related to health, the life sciences, and architecture.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PHYS 251 Physics I with Calculus

Credit Hours: 5 / Billing Hours: 7

First in a two-semester sequence of calculus-based physics with laboratory for science and engineering students. Topics include forces and motion, momentum, work and energy, conservation laws of energy and momentum, rotational motion, static equilibrium, gravitation, and oscillations. May include relativity. Experiments and hands-on activities are integrated with lecture topics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 152 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: The PHYS251/252 courses are often taken by students going into fields of engineering, physics, chemistry, and other fields requiring a Calculus-level understanding of physics.

PHYS 252 Physics II with Calculus

Credit Hours: 5 / Billing Hours: 7

Second in a two-semester sequence of calculus-based physics with laboratory for science and engineering students. Topics include electric and magnetic forces and fields, electromagnetic energy, currents and circuits, electromagnetic oscillations and waves, mechanical waves and sound, light waves, physical and geometrical optics. Experiments and hands-on activities are integrated with lecture topics. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in PHYS 251 and Minimum 2.0 in MATH 152.
- Placement Score: Reading Level 5 and Writing Level 6.
- Course Note: The PHYS251/252 courses are often taken by students going into fields of engineering, physics, chemistry, and other fields requiring a Calculus-level understanding of physics.

PHYS 260 Statics for Engineers

Credit Hours: 3 / Billing Hours: 3

This course will place emphasis on the understanding of principles through the solution of problems in analysis of vectors, torques, trusses, resultants, machines, force systems, centroids and center gravity, equilibrium and friction. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in PHYS 251.
- Placement Score: None.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

POLS 120 American Political System

Credit Hours: 4 / Billing Hours: 4

An analysis of the American political system, emphasizing the federal system and government at the national level. This course studies national governmental institutions' activities, functions and methods of organizing resources and making policy. Emphasis is on political participation by an informed public. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

POLS 121 State and Local Government

Credit Hours: 4 / Billing Hours: 4

An overview of state and local government in the United States with an emphasis on the Michigan government. Study is focused on state and local governmental institutions' activities, functions, resource management and policymaking. Consideration is given to relationships between federal, state and local governments, the issues they confront, and public participation. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

POLS 201 Intro to Political Science

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to the study of politics and the academic fields of Political Science. It examines the fundamental nature of politics, the exercise of power and their implications. Students will explore the need for governance, role of power, place of individuals in society and political institutions. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

POLS 205 Political Science Internship

Credit Hours: 3 / Billing Hours: 3

This course offers the student a chance to experience how the political process works. Participation will provide students exposure to government and non-profit careers, as well as an opportunity to reflect on the political process. The course covers potential careers at all levels of government, from city and township through the federal level, and at civil society organizations. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

POLS 240 Introduction to Public Policy

Credit Hours: 3 / Billing Hours: 3

This course will provide an analysis of political and organizational processes which influence the formulation and implementation of public policy. Special attention will be given to the formulation, implementation, and evaluation of various selected public policies. Further, the course is intended to develop some skills for the evaluation and design of policies. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

POLS 250 Campaigns & Elections

Credit Hours: 3 / Billing Hours: 3

Emphasizes origins, structure, and functions of US and Michigan political parties. Examines the election process and factors influencing election results. Emphasis is placed on the importance of organizing effective political action and citizen participation, and the role of interest groups in American and Michigan politics. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

POLS 260 Comparative Political Systems Credit Hours: 3 / Billing Hours: 3

An introduction to the institutions, processes, and policies of political systems throughout the world. The course will compare political cultures and behavior in the United States, the industrial nations of Europe and Asia, and the developing nations, with special emphasis on the themes of democracy, participation, and political change. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

POLS 270 International Relations Credit Hours: 3 / Billing Hours: 3

A course in contemporary international relations, with emphasis on the effect political cultures in different countries have on the international system. Concepts, theories, and rudimentary methods of comparison and analysis are surveyed. The relationship between international politics and U.S. foreign and domestic policy is explored. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

PSYC 175 Psyc of Death: Prep for Living Credit Hours: 3 / Billing Hours: 3

Examines psychological theories, concepts, and research that pertain to the study of death and personal death awareness. Topics include cross-cultural and historical perspectives, health care systems, medical ethics, grief/loss issues, funerals and body disposition, legal and social issues, death in modern society, suicide and beliefs about life after death. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

PSYC 180 Intro to Positive Psychology Credit Hours: 3 / Billing Hours: 3

A general overview of positive psychology and its place within psychology as a whole. Major topics are well-being, strengths and virtues, positive emotional and cognitive states, positive institutions, and the need for positivity with stigmatized groups. Attention will be paid to research underlying the formal study of these topics. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PSYC 200 Introduction to Psychology Credit Hours: 4 / Billing Hours: 4

The basic orientation to the field of psychology, designed as a general survey and as preparation for advanced courses in the field. Topics include methods, nervous systems, intelligence, development, learning, memory, personality, abnormality, therapy, and social behavior. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or ENGL 099 concurrently.
- Course Note: All sections of PSYC 200 allow concurrent enrollment with ENGL 099. Some face-to-face sections of PSYC 200 allow concurrent enrollment with ENGL 098 and NCAS 104. See an academic advisor for sections that allow concurrent enrollment with ENGL 098 and NCAS 104.

PSYC 202 Psychology of Personality Credit Hours: 3 / Billing Hours: 3

A survey of the leading theories of personality and personality development. Topics include Freudian/psychodynamic, trait, behavioral, humanistic, and Yoga/Buddhist theories, assessment of personality, and major personality theorists. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

PSYC 203 Social Psychology Credit Hours: 3 / Billing Hours: 3

A theoretical and empirical approach to understanding individual social and group behavior. Examines the person and the social environment with a focus on attitudes, attributions, interpersonal and intrapersonal behavior, and group processes. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (PSYC 200 or SOCL 120).
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PSYC 205 Human Growth and Development Credit Hours: 3 / Billing Hours: 3

A study of the human life cycle from conception to death. Designed to investigate, describe, and explain changes in the physical, social, emotional, and cognitive areas that are a result of the continuous interaction of maturation and experience. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

PSYC 209 Cognitive Psychology Credit Hours: 3 / Billing Hours: 3

Cognitive psychology is the study of the human mind; its domain includes questions concerning how people perceive the world, remember information, use knowledge, understand language, learn, reason, and solve problems. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in ENGL 121 or ENGL 131.

PSYC 210 Brain and Behavior Credit Hours: 3 / Billing Hours: 3

Brain and Behavior integrates psychology and biology, emphasizing how the nervous system controls behavior. The course provides an examination of the structure and function of the nervous system and the neurobiological bases of mental illness, drug abuse, movement, sleep, memory, feeding and drinking, sensory processing, and neurological disorders. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (PSYC 200 or BIOL 121 or BIOL 127).
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or (Minimum 2.0 in ENGL 121 or ENGL 131).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PSYC 221 Child Psychology

Credit Hours: 3 / Billing Hours: 3

Explores theories and principles of child cognitive and physical development from conception to puberty. The course covers psychological, sociological, and biological aspects of maturation and development. Topics include issues such as moral development, social development, language development, and cultural and cross cultural influences on the developing child. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

PSYC 222 Adolescent Psychology

Credit Hours: 3 / Billing Hours: 3

Examines theoretical and empirical literature related to adolescence, emphasizing biological, psychological, and sociological aspects of maturation and development from puberty to young adulthood. Topics include the adolescent's search for identity; influences of culture, family, school and peer group; and problems and pathologies in adolescence. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or (Minimum 2.0 in ENGL 121 or ENGL 131).

PSYC 240 Psychology of Human Sexuality

Credit Hours: 3 / Billing Hours: 3

An exploration of psychological aspects of human sexuality, including research methods, response, identity, development, attraction and intimacy, communication, orientation, attitudes, diseases, and disorders. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

PSYC 250 Abnormal Psychology

Credit Hours: 3 / Billing Hours: 3

A survey of the nature, development, diagnosis, and treatment of psychopathology viewed from a general-systems perspective (psychological, sociological, and biological). Major theories of causes, scientific research, and diagnostic and therapeutic techniques are studied with respect to various psychological disorders. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in PSYC 200.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

RELG 150 Intro to World Religions

Credit Hours: 4 / Billing Hours: 4

This course will provide students with a global perspective on the human religious experience through an introductory examination of the beliefs and practices of the world's largest religions: Christianity, Islam, Hinduism, and Buddhism. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

RELG 210 Comparative Religions

Credit Hours: 3 / Billing Hours: 3

This course will introduce students to various topics and themes across major religions in order to analyze the nature of reality and determinations of truth, while cultivating a global perspective on the nature of religious belief, religious practice, and the religious experience of The Sacred. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

RELG 211 Asian Religions and Traditions

Credit Hours: 4 / Billing Hours: 4

This course offers an exploration of the historical development and contemporary practice of religions and philosophies of East and South Asia, including but not limited to: Hinduism, Buddhism, Islam, Confucianism, and Taoism. The course also considers the influences of these religions on contemporary culture in North America and globally. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

RELG 230 Introduction to Christianity

Credit Hours: 3 / Billing Hours: 3

In this course, students will analyze the historical and cultural contexts of Jesus' teachings and the New Testament. The student will interpret scriptures and acknowledge the contributions of historical figures that shaped Christianity's beliefs and practices. Three expressions of Christianity will be studied: Catholicism, Orthodox, and Protestantism. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

RELG 232 Introduction to Islam

Credit Hours: 3 / Billing Hours: 3

This course will introduce students to the historical and cultural contexts for understanding the teachings of The Prophet Muhammad, the beliefs and practices derived from the Qur'an and Sunnah (Hadith), and early caliphates or dynasties. The student will be introduced to three expressions of Islam: Sunni, Shi'a, and Sufism. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) or (Reading Level 5 and Writing Level 4 and NCAS 102 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SCIN 287 Science Technology Internship Credit Hours: 2 to 4 / Billing Hours: 2 to 4

This course provides on-the-job training for an applied degree in science technology. Placement is made at an approved training site to earn credits for satisfactory work performance. This internship may be a paid or unpaid work experience. Students will apply knowledge and skills learned in academic courses to real world situations. (Offered Fall, Spring, Summer)

- Prerequisite Course: Department Approval.

SCIS 297 Independent Study in Science Credit Hours: 1 to 4 / Billing Hours: 1 to 4

An opportunity for self-directed learners to explore topics related to, but not taught in the curriculum. Students spend at least two hours per week for each credit. A detailed proposal must be submitted by the student for approval by the Department and supervising instructor prior to registration. (Offered Fall, Spring, Summer)

- Prerequisite Course: Department Approval.

SIGN 160 Intro to the Deaf Community Credit Hours: 3 / Billing Hours: 3

This course is designed to introduce the student to the various aspects of life in the dDeaf community including cultural identity, education, language, the medical perspective, civil rights, disability law, advocacy, audiology, and oppression. Students will be taught up to 300 American Sign Language vocabulary words and phrases, Fingerspelling, and numbers. A grade of 2.0 fulfills the General Education-Applied Degrees English Composition (second course)/Communication requirement. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: May be taken concurrently with SIGN 161. Non-degree students may waive SIGN 160.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 161 American Sign Language I

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to the basic skills in developing production and comprehension skills in American Sign Language (ASL). Students will learn ASL vocabulary, structure, and grammar. Course content also includes the manual alphabet and numbers. Students will develop basic conversational abilities and culturally appropriate behaviors, and learn about the culture and history of dDeaf communities. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SIGN 160 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: May be taken concurrently with SIGN 160.

SIGN 162 American Sign Language II

Credit Hours: 3 / Billing Hours: 3

This course is designed to continue student development, production, and comprehension skills in American Sign Language (ASL). Students will learn additional ASL vocabulary, structure, and grammar. Students will develop basic conversational abilities, culturally appropriate behaviors, and learn about the culture and history of dDeaf communities. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in SIGN 161.
- Placement Score: Reading Level 5 and Writing Level 4.

SIGN 163 American Sign Language III

Credit Hours: 3 / Billing Hours: 3

This course is an introduction to intermediate skills in developing production and comprehension skills in American Sign Language (ASL). Students will learn ASL vocabulary, structure, and grammar. Course content also includes the manual alphabet and numbers. Students will develop and refine their conversational abilities, culturally appropriate behaviors, and learn about the culture and history of dDeaf communities. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SIGN 162.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 164 American Sign Language IV

Credit Hours: 3 / Billing Hours: 3

This course is designed to continue development of American Sign Language (ASL) skills. Students will learn ASL vocabulary, structure, and grammar. Students will develop and refine intermediate conversational abilities, culturally appropriate behaviors, and learn about the culture and history of dDeaf communities. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in SIGN 163.
- Placement Score: Reading Level 5 and Writing Level 4.

SIGN 166 Fingerspelling

Credit Hours: 3 / Billing Hours: 3

This course provides the student with concentrated instruction and practice in both expressive and receptive fingerspelling and numbering skills. Designed for students intending to become sign language interpreters. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in SIGN 161.
- Placement Score: Reading Level 5 and Writing Level 4.
- Recommended: SIGN 162 or concurrently.

SIGN 167 Beginning Sign to Voice

Credit Hours: 3 / Billing Hours: 3

Designed to increase the student's receptive skills in conversational sign language focusing on comprehension of the various manual communication systems utilized by dDeaf persons. Sign-to-voice techniques and practice will be introduced through use of prepared videotapes. Intended for students who plan to become sign language interpreters. (Offered Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SIGN 163 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 170 Expressive/Receptive ASL

Credit Hours: 3 / Billing Hours: 3

This course focuses on grammatical elements of American Sign Language (ASL) using expressive skills. Conversational behaviors will be discussed. Student's receptive and voicing skills will focus on ASL vocabulary recognition, English sentence structure, and vocal tone and volume. (Offered Summer)

- Prerequisite Course: Minimum 2.0 in SIGN 163 or concurrently.
- Placement Score: Reading Level 5 and Writing Level 4.

SIGN 200 Sign Practicum Seminar

Credit Hours: 2 / Billing Hours: 2

Prepares students to develop working relationships within the field of interpreting. This course will focus on ethics, professional behavior, and networking. This course will prepare students for directed observation and application of practical interpreting skills required in the consecutive semesters. Student must complete ninety (90) practicum hours during the semester. (Offered Fall)

- Prerequisite Course: None; Department Approval required.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Restrictions: Student must successfully pass ITP screening in order to take SIGN 200.

SIGN 240 Intro to Transliterating

Credit Hours: 3 / Billing Hours: 3

American Sign Language vocabulary will continue to be developed while learning about the interpreting and transliterating process. Students will analyze text and demonstrate the ability to facilitate communication in both ASL sentence structure or English word order. The class involves expressive and receptive skill development. Course is designed for students intending to be sign language interpreters. Student must complete ninety (90) practicum hours during the semester. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Restriction: Student must successfully pass ITP screening in order to take SIGN 240.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 250 Deaf Culture and History

Credit Hours: 3 / Billing Hours: 3

This course looks closely at the unique experiences of those in the Deaf Community by examining the history of the Deaf Community in America and the sociology of Deaf, Deaf-Blind, and Hard of Hearing people. Designed for students intending to become sign language interpreters. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in SIGN 163.
- Placement Score: Reading Level 5 and Writing Level 4.

SIGN 260 Linguistic Principles of ASL

Credit Hours: 3 / Billing Hours: 3

An overview of the linguistic principles of American Sign Language (ASL) including its basic phonology, morphology, syntax, variation, results of language contact with English and other signed languages, pragmatics, bilingualism and language as art. Topics relating to interpreting, the Deaf Community, and Deaf Culture will be emphasized. Designed for students intending to become sign language interpreters. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in SIGN 163.
- Placement Score: Reading Level 5 and Writing Level 4.

SIGN 263 Intermediate Sign to Voice

Credit Hours: 3 / Billing Hours: 3

This course develops and refines necessary basic skills and fluency in receptive sign language and for voicing all levels of communication of deaf individuals. Techniques taught include interpreter task analysis, listening, attending, internal message formulation, vocabulary search, and monitoring output. Designed for students intending to become sign language interpreters. Student must complete ninety (90) practicum hours during the semester. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (SIGN 200 and SIGN 240).
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Student must have completed ninety (90) practicum hours prior to taking SIGN 263.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 266 Post-Secondary Interpreting

Credit Hours: 2 / Billing Hours: 2

Designed for students intending to become sign language interpreters, this course provides simulated testing settings using live or pre-recorded movies of hearing and deaf instructors giving classroom-appropriate lectures. Students will develop teaming skills, feedback skills, and interpreting skills. Students will practice interpreting approaches and skills for a variety of academic topics. Students will analyze lectures at message level and begin to apply principles of discourse analysis. Student must complete sixty (60) practicum hours during the semester, for a minimum of 240 hours, while also satisfying the individual category requirements. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (SIGN 263 and SIGN 267).
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Student must have completed one hundred eighty (180) practicum hours prior to taking SIGN 266.

SIGN 267 Sign Practicum I

Credit Hours: 3 / Billing Hours: 3

Combines student transliterated lectures and supervised placement in various interpreting settings to allow directed observation and application of practical interpreting skills. Designed for students intending to become sign language interpreters. Student must complete ninety (90) practicum hours during the semester. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (SIGN 200 and SIGN 240).
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Student must have completed ninety (90) practicum hours prior to taking SIGN 267.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 268 Sign Practicum II

Credit Hours: 3 / Billing Hours: 3

For students intending to become sign language interpreters, combines student-interpreted lectures and supervised placement in various settings to allow directed observation and application of practical interpreting skills. Student must complete sixty (60) practicum hours during the semester for a minimum of 240 hours, while also satisfying the individual category requirements. (Offered Summer)

- Prerequisite Course: Minimum 2.5 in (SIGN 263 and SIGN 267)
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Student must have completed one hundred eighty (180) practicum hours prior to taking SIGN 268.

SIGN 270 Advanced Interpreting

Credit Hours: 3 / Billing Hours: 3

This course continues the development of skills necessary for interpreter evaluation/qualification. Students will be provided with simulated testing situations using interactive videotapes of hearing/deaf individuals requiring students to interpret/transliterate. Designed for students intending to become sign language interpreters. Student must complete eighty (80) practicum hours and satisfy the individual category requirements during the semester. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (SIGN 266 and SIGN 268).
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Restriction: Student must have completed the sophomore year practicum requirement prior to taking SIGN 270.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 271 Advanced Sign to Voice

Credit Hours: 3 / Billing Hours: 3

This course provides advanced skill development and fluency in voicing for a variety of dDeaf individuals in diverse settings. Techniques taught are voice projection, breathing and relaxation, analysis of sign information, anticipation and prediction, closure, modality switching, correction, decalage, and pacing. Designed for students intending to become sign language interpreters. Student must complete eighty (80) practicum hours and satisfy the individual category requirements during the semester. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in SIGN 270.
- Placement Score: Reading Level 5 and Writing Level 4.
- Course Note: Student must have completed eighty (80) practicum hours prior to taking SIGN 271.

SIGN 293 Principles of Interpreting

Credit Hours: 3 / Billing Hours: 3

Surveys professional interpreting through lecture, role-playing, and classroom discussion. Reinforces the ethics of interpreting while analyzing the specific roles and responsibilities of a professional interpreter. Examines necessary skills of the interpreter in various settings, such as educational, mental health, vocational rehabilitation, legal, religious, phone, television, medical, DeafBlind, and minimal language skills. Student must complete eighty (80) practicum hours during the semester. (Offered Fall)

- Prerequisite Course: Minimum 2.5 in (SIGN 266 and SIGN 268).
- Placement Score: Reading Level 5 and Writing Level 4.
- Restrictions: Student must have completed the sophomore year practicum requirement prior to taking SIGN 293.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SIGN 296 Specialized Interpreting

Credit Hours: 2 / Billing Hours: 2

This course allows students to learn best practices for interpreting in a variety of settings. These settings may include community, religion, video relay, education, medical, and legal. Designed for students intending to become sign language interpreters. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in (SIGN 270 and SIGN 293).
- Placement Score: Reading Level 5 and Writing Level 4.

SOCL 120 Introduction to Sociology

Credit Hours: 4 / Billing Hours: 4

A survey of major theoretical perspectives, concepts, and methods of sociology. Emphasis is placed on societal transformation, social organization, culture, cultural diversity, socialization, social stratification, social institutions, and social change within a national and global context. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)
- Course Note:
 - o 1) All sections of SOCL 120 allow concurrent enrollment with ENGL 099; some sections also allow concurrent enrollment with ENGL 098 and NCAS 103. See an academic advisor for sections that allow concurrent enrollment with ENGL 098 and NCAS 103.
 - o 2) The textbook for this course is an open educational resource, provided to students at no cost. Access to the textbook will be available on the first day of class.
 - o 3) This course includes one or two onsite proctored exam(s) for all online and ORT sections. Students will need to travel to an LCC campus or request an approved non-LCC proctor (additional fees may apply) to take the exam(s).
 - o 4) Online, Hybrid and ORT sections of this course require internet access to complete quizzes and/or other assessments.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SOCL 254 Marriage and Family

Credit Hours: 3 / Billing Hours: 3

A survey of theoretical perspectives on the institutions of marriage and family. Topics include the historical context of family, gender roles, sexual behavior, values, psychological needs, divorce, parenting, family problems, and social policy. Variations in family types and lifestyles among diverse groups within the U. S. and elsewhere are examined. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (SOCL 120 or PSYC 200).
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

SOCL 255 Contemporary Social Problems

Credit Hours: 3 / Billing Hours: 3

This course is a theoretical and empirical survey of the nature and causes of social problems such as poverty, crime, racial and gender inequality, demographic and environmental changes, health care, education and family stability. Examples from other societies will be used for comparative analysis and establishing global links. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SOCL 120.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

SOCL 260 Race and Ethnicity

Credit Hours: 3 / Billing Hours: 3

Sociological study of race and ethnicity in the U.S. and globally. Emphasis is placed on theories of race, racial and ethnic group formation, ethnic stratification, identity formation, immigration and struggles for equality. Racial and ethnic group experiences in Western and non-Western societies are traced historically and viewed comparatively. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SOCL 120.
- Placement Score: Reading Level 5.
- Recommended: Writing Level 6 or Minimum 2.0 in (ENGL 121 or ENGL 131).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SOWK 101 Introduction to Social Work

Credit Hours: 3 / Billing Hours: 3

This course introduces the principles of professional social work practice. Emphasis is on the history of social work, social welfare policy, empowerment, and human diversity. There is an overview of social work ethical practice, roles, and careers with relevance to the diverse social and client needs. This course aligns with the Council for Standards in Human Services Education. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.

SPAN 106 Spanish for Health Care

Credit Hours: 3 / Billing Hours: 3

This course is designed to develop spoken and written communication skills in health care Spanish. Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in health care. Students will perform reading and writing exercises, practice vocabulary and dialogues essential to specific health care-related situations, and study cultural topics relevant to Spanish in health care settings. (Offered Spring)

- Prerequisite Course: Reading Level 5.
- Recommended: Previous experience with the Spanish language is strongly advised.

SPAN 121 Elementary Spanish I

Credit Hours: 4 / Billing Hours: 4

First course of a two-semester sequence in elementary Spanish. Designed for persons with no knowledge of Spanish who wish to develop basic language skills. Elementary practice in listening comprehension, speaking, reading, and writing. Provides useful information about the Spanish-speaking world. Class is taught largely in Spanish. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SPAN 122 Elementary Spanish II

Credit Hours: 4 / Billing Hours: 4

Second course of a two-semester sequence in elementary Spanish. Introduces more complex structures while developing a foundation in the essentials of the language. Emphasizes practice in listening comprehension, speaking, reading, and writing. Provides useful information about the Spanish-speaking world. Class is taught largely in Spanish. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in SPAN 121 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

SPAN 201 Intermediate Spanish I

Credit Hours: 4 / Billing Hours: 4

First course of a two-semester sequence in intermediate Spanish. Begins with review of grammar, and continues with intensive vocabulary building, listening comprehension, and writing compositions. Encourages conversation by introducing discussions about the cultures of the Spanish-speaking world. Class is taught entirely in Spanish. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in SPAN 122 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

SPAN 202 Intermediate Spanish II

Credit Hours: 4 / Billing Hours: 4

Second course of a two-semester sequence in intermediate Spanish. Continues a review of grammar, intensifies vocabulary building, strengthens listening comprehension and composition writing, and improves oral fluency through intense discussions on the cultures of the Spanish-speaking world. Class is taught entirely in Spanish. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in SPAN 201 or equivalent.
- Placement Score: Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

STAT 170 Introduction to Statistics

Credit Hours: 4 / Billing Hours: 4

This is an introductory course in statistics, with a focus on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, and chi-square tests. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in (MATH 105 or MATH 106 or MATH 107) or P in (NCMA 106 or NCMA 110) or (MATH 097 concurrently) or a Math Placement Score indicated below.
- Placement Score: (Reading Level 5 and Writing Level 4) or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently) and (BSM2/CPT Algebra 77-120 or ACM2/QRAS 260-300 or ACM3/AAF 220-244 or A02/ACT Math 20-21 or S12/SAT Math 520-540 or PS12/PSAT Math 520-540 or HS GPA 3.0 w/in 10 years or GEDM/GED Math 165 w/in 10 years).
- Course Note:
 - o 1) Graphing calculator required; TI 83-84 series calculator highly recommended.
 - o 2) A student should take either STAT 170 or STAT 215 (not both), depending on their transfer institution.
 - o 3). This course includes on-site proctored exam(s) for all online and/or hybrid sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

STAT 215 Intro to Probability and Stats

Credit Hours: 4 / Billing Hours: 4

This is an introductory course in probability and statistics. Topics include descriptive statistics, probability, random variables, normal distribution, t distribution, chi-square distribution, F distribution, confidence intervals, hypothesis testing, correlation, and linear regression. In addition, students will solve applied problems by completing required computer assignments. (Offered Fall, Spring, Summer)

- Prerequisite Course: Minimum 2.0 in MATH 120 or above or a Math Placement Score indicated below.
- Placement Score: Reading Level 5 and Writing Level 4 and (BSM7/Accuplacer CLM 80-99 or ACM3/AAF 260-300 or A02/ACT Math 26-28 or S12/SAT Math 620-680 or PS12/PSAT Math 620-680).
- Recommended: Knowledge of Windows software.
- Course Note:
 - o 1) A graphing calculator from the TI-83/84 series is required for course work.
 - o 2) A student should take either STAT 170 or STAT 215 (not both), depending on their transfer institution.
 - o 3). This course includes on-site proctored exam(s) for all online sections. Students will need to travel to an LCC campus or request an approved non-LCC testing site (additional fees may apply) to take the exam(s).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

STPR 145 Foundations Sterile Processing Credit Hours: 5 / Billing Hours: 6.5

This course introduces students to basic skills needed in the Sterile Processing Department of health care facilities, including processing patient care equipment, supplies, and instruments for use in all departments. Students will also learn the principles and practices of decontamination, cleaning, disinfection, sterilization, and distribution of medical/surgical supplies. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: STPR 148.
- Course Note: Students will be charged an additional fee of \$50 for ACEMAPP required documentation.
- Required:
 - Minimum age of 18 required to enroll in this course.
 - Completion of Bloodborne Pathogens and HIPAA Training online; information provided at first class session.

STPR 148 Sterile Processing Externship Credit Hours: 2 / Billing Hours: 2

This course prepares individuals to function competently in the Sterile Processing Department in hospitals. It builds on the principles and practices taught in STPR 145 and includes on-the-job training and hands-on practice in a hospital. Successful completion of the course qualifies a student to take the national certification examination for Sterile Processing and Distribution through the Certification Board for Sterile Processing and Distribution (CBSPD). (Offered Spring)

- Prerequisite Course: Minimum 2.5 in [STPR 145 or (CHSE 120 and CHSE 145) or concurrently].
- Placement Score: Reading Level 5 and Writing Level 4.
- Corequisite Course: STPR 145.
- Course Note:
 - Minimum age of 18 required.
 - Completion of Bloodborne Pathogens and HIPAA Training online; information provided on course D2L site.
 - Negative 2-step TB (tuberculosis) skin test within the last year.
 - 4) Student must pass an [ICHAT](#) criminal background check prior to clinical placement; information provided on course D2L site.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SURG 100 Fundamentals of Surgical Tech

Credit Hours: 3 / Billing Hours: 3

Introduction to role and function of the surgical technologist as a member of the surgical team. Lectures present all skills, procedures, and protocol necessary to participate in the operating room. (Offered Fall)

- Prerequisite Course: None. Admission to Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 101 and SURG 108 and SURG 109 and SURG 121 and SURG 122.

SURG 101 The Surgical Patient

Credit Hours: 2 / Billing Hours: 2

Lectures will present the protocol and procedures directly affecting the care and safety of the patient. This includes the ethical, legal, and moral responsibilities of the technologist, the concepts of patient care, and preoperative routines, along with elements of proper documentation and risk management. (Offered Fall)

- Prerequisite Course: None. Admission to Surgical Technology Program.
- Placement Score: None.
- Corequisite Course: SURG 100 and SURG 108 and SURG 109 and SURG 121 and SURG 122.

SURG 103 Surgical Asepsis

Credit Hours: 2 / Billing Hours: 2

This course defines and describes pathogenic microorganisms and the causes and prevention of infection in the hospital. The student will be introduced to sterilization, disinfection, and other methods of controlling microbial growth. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SURG 108 Surgical Pharmacology

Credit Hours: 2 / Billing Hours: 2

This course introduces the student to basic types of anesthesia, anesthesia agents, indications and contraindications of medications, and the calculations of maximum dosages of various drugs. The student will become familiar with a wide array of pharmacological agents specifically related to the peri-operative care being provided for the surgical patient. (Offered Fall)

- Prerequisite Course: None. Admission to Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 100 and SURG 101 and SURG 109 and SURG 121 and SURG 122.

SURG 109 Basic Surgical Procedures

Credit Hours: 4 / Billing Hours: 4

An introduction to basic types of surgical procedures, with a primary focus on the sequential steps. Surgical anatomy, physiology, and pathophysiology will be addressed relative to basic surgical intervention. Students will learn anatomy, physiology, pathophysiology, and diagnostic indication for the surgical procedure, and explore how to prepare and plan for the intraoperative phase of the surgical procedure. (Offered Fall)

- Prerequisite Course: None. Admission to Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 100 and SURG 101 and SURG 108 and SURG 121 and SURG 122.

SURG 110 Advanced Surgical Procedures

Credit Hours: 4 / Billing Hours: 4

This course introduces the student to intermediate and advanced surgical procedures with a primary focus on the sequential steps involved in these procedures, higher difficulty cases, and specialized instrumentation. Surgical anatomy, physiology, and pathophysiology will be addressed. The biomedical sciences will also be addressed: robotics, physics, computers, and electricity. (Offered Spring)

- Prerequisite Course: None. Successful completion of 1st semester of the Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 111 and SURG 123 and SURG 124.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SURG 111 Surgical Specialty/Prof Prep

Credit Hours: 4 / Billing Hours: 4

An introduction to basic types of surgical procedures, with a primary focus on the sequential steps. Surgical anatomy, physiology, and pathophysiology will be addressed relative to basic surgical intervention. Students will learn anatomy, physiology, pathophysiology, and diagnostic indication for the surgical procedures, and explore how to prepare and plan for the intraoperative phase of the surgical procedure. (Offered Spring)

- Prerequisite Course: None. Successful completion of 1st semester of the Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 110 and SURG 123 and SURG 124.

SURG 121 Applied Surgical Techniques I

Credit Hours: 2 / Billing Hours: 4

This course covers the application of theory in the use of surgical supplies and equipment which will prepare students to scrub in for actual surgical procedures. A specified number of competencies will need to be successfully completed to advance to SURG122. (Offered Fall)

- Prerequisite Course: None. Admission to Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 100 and SURG 101 and SURG 108 and SURG 109.
- Course Note: \$285 of the course fee is non-refundable.

SURG 122 Applied Surgical Techniques II

Credit Hours: 2 / Billing Hours: 4

This course prepares students for the actual operating room experience through application of theory and clinical skills in mock surgical procedures. Basic surgical procedures will be presented, with some hands-on experience utilizing surgical simulators, along with additional competencies pertaining to circulating duties, disinfection, and sterilization. (Offered Fall)

- Prerequisite Course: Pass grade in SURG 121 or concurrently.
- Placement Score: None.
- Corequisite Course: SURG 100 and SURG 101 and SURG 108 and SURG 109.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

SURG 123 Applied Surgical Tech I

Credit Hours: 4 / Billing Hours: 8

This clinical session at a hospital provides the student with the application of theory and clinical skills in basic and advanced surgical procedures and specialty areas. (Offered Spring)

- Prerequisite Course: None. Successful completion of 1st semester of the Surgical Technology Program is required.
- Placement Score: None.
- Corequisite Course: SURG 110 and SURG 111.

SURG 124 Applied Surgical Techniques II

Credit Hours: 4 / Billing Hours: 8

A continuation of SURG 123, this course is a clinical session at a hospital. It covers the application of theory and clinical skills in basic and advanced surgical procedures and surgical specialty areas. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in SURG 123 or concurrently.
- Placement Score: None.
- Corequisite Course: SURG 110 and SURG 111.

TECH 100 Safety-OSHA10

Credit Hours: 2 / Billing Hours: 3

This course covers safety on construction/general industry worksites. Included are local, state, and federal safety regulations. The course will focus on the prevention of accidents but will also teach the correct response if an accident should occur. OSHA-10 Construction Certification. will be issued upon successful completion. (Offered Fall, Spring)

- Placement Score: Reading Level 2 and Writing Level 2.

TECH 102 General Industry Safety

Credit Hours: 2 / Billing Hours: 3

This course covers safety in the industrial workplace. Included are local, state and federal safety regulations. The focus will be on the prevention of accidents but will teach the correct response if an accident should occur. OSHA-30 General Industry Certification will be issued upon successful completion. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 110 Introduction to Theatre

Credit Hours: 3 / Billing Hours: 3

Introduction to Theatre includes definition and analysis of theatrical art, incorporating script analysis, theatre history, the relationship between theatre and the culture from which it comes, and the roles of theatre practitioners. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 or ENGL 099 concurrently.

THEA 114 Intro to Technical Theatre

Credit Hours: 3 / Billing Hours: 3

Introduction to technical theatre for performing arts. Students will be introduced to the basic elements of scenic, lighting, costume, media, and properties design, and the execution of these design elements in a theatrical production. Students will be instructed on tool usage and on costume and scene shop safety, and will gain a practical understanding of the backstage elements in a theatrical performance. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

THEA 115A Tech Thea II-Set/Light Design

Credit Hours: 2 / Billing Hours: 3

Intensive learning and application experience in set/lighting design. Assist at the beginning levels in set/lighting design while working on the season and studio productions for Performing Arts. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 114.
- Placement Score: None.
- Recommended: THEA 110.

THEA 115B Tech Thea II-Prop Design/Const

Credit Hours: 2 / Billing Hours: 3

Intensive learning and application experience in property design and construction. Assist at the beginning levels of property design and construction while working on the season and studio productions for Performing Arts. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 114.
- Placement Score: None.
- Recommended: THEA 110.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 115C Tech Thea II-Costume Des/Const Credit Hours: 2 / Billing Hours: 3

Intensive learning and application experience in costume design and construction. Assist at the beginning levels of costume design and construction while working on the season and studio productions for Performing Arts. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 114.
- Placement Score: None.
- Recommended: THEA 110.

THEA 115D Tech Thea II-Produc/Stage Mgmt Credit Hours: 2 / Billing Hours: 3

Intensive learning and application experience in production and stage management. Assist at the beginning levels of production and stage management while working on the season and studio productions for Performing Arts. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 114.
- Placement Score: None.
- Recommended: THEA 110.

THEA 120 Introduction to Acting Credit Hours: 2 / Billing Hours: 3

Explores various acting techniques and introduces the beginning student to the skills necessary to maintain a sustained dramatic performance. Theatre games and improvisation exercises to overcome stage fright and to develop concentration and listening skills are heavily emphasized. Students present final short scene. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.

THEA 131 Studio Theatre Performance I Credit Hours: 1 / Billing Hours: 2

Course includes rehearsal, performance, and evaluation of a contemporary script. Focus is on an understanding and implementation of skills acquired in THEA 141 and the relationships experienced between actor and director. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: THEA 141.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 141 Acting I - Contemporary

Credit Hours: 2.5 / Billing Hours: 4

Fundamentals of acting, including improvisational techniques; the physical, vocal, and internal development of character; analysis and scoring by beats of a contemporary script. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 120 or concurrently.
- Placement Score: None.
- Corequisite Course: THEA 131.

THEA 143 Stage Voice for the Actor

Credit Hours: 3 / Billing Hours: 4

Course will cover exercises in vocal production: posture, support, relaxation, resonance, projection, and enunciation. Focus will be on exercises to develop vocal flexibility from Rodenburg, Linklater, and/or Berry techniques. Students will experience vocal techniques which lead to greater emotional awareness and responsiveness. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

THEA 150 Acting for the Camera

Credit Hours: 3 / Billing Hours: 4

Acting techniques and methods relevant to camera work will be explored. Student work is videotaped and critiqued. Acting for the Camera applies and builds on fundamentals established in Introduction to Acting. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in THEA 120 or concurrently or Department Approval.
- Placement Score: None.

THEA 160 Stage Combat

Credit Hours: 2 / Billing Hours: 3

Students learn to use a variety of weapons and hand to hand combat styles on stage. Students learn the style of combat used in theatre/film industry. Students explore fight scenes, basics of mechanics of choreographing fight scenes, and are instructed on basic safety procedures for choreographing/executing fight sequences. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: THEA 120.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 171 Play Analysis

Credit Hours: 3 / Billing Hours: 3

An analysis of modern contemporary classics of the theatre. The student will read and analyze a minimum of four modern or contemporary scripts. The student will develop a comprehensive production concept for one of these scripts. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

THEA 173 Movement for the Actor

Credit Hours: 2 / Billing Hours: 3

Students will learn methods of physical transformation which can be applied to acting and character development. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

THEA 181 Improvisation

Credit Hours: 2.5 / Billing Hours: 4

By using the improvisational techniques of mask work and developmental exercises, this course will train the student in long-term, in-depth character development. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

THEA 210 Theatre History

Credit Hours: 4 / Billing Hours: 4

Examines the history of Western Theatre, including the literature, performance conventions, the physical theatre, and major figures from the Greek to Modern eras. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: Reading Level 5 and Writing Level 6.
- Recommended: THEA 110.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 220 Play Directing

Credit Hours: 3 / Billing Hours: 4

Introduction to the fundamentals of directing a play, including play analysis, stage composition and working with actors. Practical experience through scene work and class exercises will be emphasized. Students will demonstrate their mastery of the principles taught by directing and presenting a short one-act play for an audience. (Offered Fall)

- Prerequisite Course: Minimum 2.0 in THEA 110 or Department Approval.
- Placement Score: None.

THEA 225 Building a Character

Credit Hours: 2 / Billing Hours: 2

This course will focus on giving theatre majors an "acting toolbox" for creating fully realized characters on stage. Class will focus on the Chekhov Technique, which emphasizes the psycho-physical development of character, as well as the language-based techniques of John Barton. Master Classes by professional actors from the Stratford Shakespeare Festival may be included. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Corequisite Course: THEA 240.

THEA 233 Studio Theatre Performance III

Credit Hours: 2 / Billing Hours: 4

Students will rehearse and perform a Shakespeare play. (Offered Summer)

- Prerequisite Course: Minimum 2.0 in (THEA 143 and THEA 225 and THEA 240) or department approval.
- Placement Score: None.

THEA 240 Acting-Shakespeare

Credit Hours: 3 / Billing Hours: 4

Students will explore the unique demands of acting and speaking Shakespeare and the qualities of his verse, including alliteration, assonance, rhymes, antithesis, puns, onomatopoeia, imagery, and iambic rhythms. Status, social, and historical context will be addressed. (Offered Spring)

- Prerequisite Course: Minimum 2.0 in (THEA 131 and THEA 141 and THEA 143) or department approval.
- Placement Score: Reading Level 5.
- Corequisite Course: THEA 225.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

THEA 283 Audition Workshop

Credit Hours: 2 / Billing Hours: 3

Students will learn audition and resume preparation and will prepare and polish two contrasting monologues for auditions. Students will learn the audition and application processes for advanced training. (Offered Fall)

- Prerequisite Course: None.
- Placement Score: None.

THEA 285 Stage Makeup

Credit Hours: 2 / Billing Hours: 3

A course in the application of stage makeup to develop a character and to assist the actor in sustaining the character in performance. Emphasizes skills in the use of different kinds of makeup, hair styling, and appearance changes. (Offered Spring)

- Prerequisite Course: None.
- Placement Score: None.

WELD 103 Combination Welding

Credit Hours: 4 / Billing Hours: 6

This is a beginning theory and practice course which will introduce the safe operations and applications of oxyacetylene welding, torch cutting, plasma cutting, brazing and shielded metal arc welding. Practice will consist of these methods of joining steel in the horizontal, flat and vertical positions. Destructive testing will also be provided. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.
- Recommended: Math Level 3.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

WELD 105 Advanced ARC Welding

Credit Hours: 4 / Billing Hours: 6

Students will develop the skills necessary to produce quality multiple pass fillet and groove welds on steel plates. Conventional and low hydrogen electrodes are used in preparation of passing performance tests in all positions. Destructive testing methods, weld profiles and welding symbols as related to arc welding are introduced. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in WELD 103.
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 108 Welding for Non-Majors

Credit Hours: 4 / Billing Hours: 6

This is a beginning theory and practice course which will introduce the safe operations and applications of torch cutting, plasma cutting, Gas Metal Arc Welding, and Shielded Metal Arc Welding. Practice will consist of these methods of joining steel in the horizontal, flat, and vertical positions. Destructive testing will also be performed. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Course Note: This course is for Mechatronics major students only. Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 110 Gas Metal ARC Welding

Credit Hours: 4 / Billing Hours: 6

Provides technical understanding and applications of gas metal arc welding and flux cored arc welding. Fundamentals, safety, equipment adjustments, metal transfers and shielding gases will be covered. Develops manual skill in all positions on different thicknesses and types of metals, including mild steel, aluminum and stainless steel. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

WELD 111 Gas Tungsten ARC Welding

Credit Hours: 4 / Billing Hours: 6

Students will develop the skills, principles and applications of gas tungsten arc welding. Welds will be done on different thickness of ferrous and non-ferrous metals in all positions. Proper material cleaning, fit up and safety are also introduced. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (WELD 103 or AUTO 100 or AUTB 114).
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 115 Robotic MIG Welding

Credit Hours: 4 / Billing Hours: 6

Students will learn to program a MIG welding robot through a teach pendant, edit programs, set weld schedules, as well as learn some basic fixture building skills. This course also provides fundamental safety precautions while programming and operating the robotic component. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in WELD 110.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 3 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 125 Structural Print Reading/Weld

Credit Hours: 2 / Billing Hours: 2

This course is for students, apprentices, technicians, and others who must develop the ability to read and accurately interpret prints and welding symbols, which are the universal language of the welding industry. Teaches advancements in metallurgy, welding processes, and consumables, along with strict code enforcement used in industry today. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4 or [minimum 2.0 in (MATH 105 or MATH 106)] or P in (NCMA 106 or NCMA 110).

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

WELD 140 Creative Welding

Credit Hours: 2 / Billing Hours: 3

This is a course for people with an interest in artwork in a metal medium. Participants will become familiar with welding, cutting, and basic design processes for the purpose of exploring creative expression. (Offered Fall, Spring)

- Prerequisite Course: None.
- Placement Score: None.
- Recommended: Course work or experience in art/design.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 170 Special Topics in Welding Credit Hours: 0.25 to 8 / Billing Hours: 0.25 to 11

This course offers students the opportunity to learn new or advanced skills in welding and other related topics. Specific content may vary with each offering but will be related to the Welding Program and profession. (Offered Fall, Spring, Summer)

- Prerequisite Course: None.
- Placement Score: None.

WELD 191 Welding Project Lab

Credit Hours: 1 to 4 / Billing Hours: 1 to 4

An opportunity for students to expand upon welding skills in maintenance welding, production welding, resistance welding and/or tool and die welding, depending on the direction the student would like to take their welding skills. Actual projects must be discussed and agreed upon by both the instructor and the student. (Offered Fall, Spring, Summer)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.

2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

WELD 201 Tool and Die Welding

Credit Hours: 3 / Billing Hours: 4.5

Theory and practice methods involved in welding various alloyed metals, preheating and postheating of metals, recognition of materials, alloying elements and their effects. The proper usage of air, oil and water hardening steels will also be covered. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.0 in (METM 190 and WELD 105 and WELD 111).
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class. \$10 of the Course Fee is non-refundable.

WELD 205 Pipe Welding

Credit Hours: 4 / Billing Hours: 6

Theory, cutting, fit up and practice on different sizes of pipe using shielded metal arc welding. Varied weld and base metal testing methods are used to the strict code requirements. Focus on low hydrogen type electrodes in groove welds in the 2G, 5G, and 6G positions. (Offered Spring)

- Prerequisite Course: Minimum 2.5 in WELD 105.
- Placement Score: Reading Level 3 and Writing Level 2.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.

WELD 220 Structural Fab & Inspection

Credit Hours: 4 / Billing Hours: 6

Introduction to steel fabrication in accordance with the American Welding Society Structural Welding Code D1.1 applications and requirements. The student will be introduced to the numerous destructive and nondestructive methods of welding inspections. Satisfactory completion of this course will assist the student in passing a welding certification test. (Offered Fall, Spring)

- Prerequisite Course: Minimum 2.5 in (WELD 105 and WELD 110 and WELD 125).
- Placement Score: Reading Level 3 and Writing Level 2 and Math Level 4.
- Course Note: Students need to bring their own safety glasses, pliers, leather welding gloves and leather work boots to start welding on the first day of class.



2025-2026 Course Descriptions

Note: For Spring 2026, please refer to Banner for all non-math courses where a math level prerequisite or placement score is referenced. The catalog is currently outdated regarding this information and will be updated at a later date.

WELD 250 Welding Internship

Credit Hours: 3 / Billing Hours: 3

This course provides welding students with practical work experience in industry. Students work for an employer in a supervised environment which provides an opportunity to apply knowledge and skills learned in the classroom and lab to an actual job situation. (Offered Fall, Spring)

- Prerequisite Course: None. Department Approval is required.
- Placement Score: None.
- Recommended: 2.5 GPA or greater.