Five Year Capital Outlay Plan

OCTOBER 2023

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Executive Summary

Lansing Community College Five-Year Capital Outlay Plan
Executive Summary

Lansing Community College (LCC) is a major urban community college situated on 48 acres in a nine-city block area in downtown Lansing, Michigan. LCC was founded in 1957 by the Lansing Public School system, with eight faculty members and 425 students. It was housed initially in what had once been the Central High School building and offered instruction in technology and practical nursing in addition to apprenticeship programs. Through private purchase and urban renewal funds, the College not only acquired many buildings that would eventually make up the College's current downtown campus but also led the way in developing North Washington Square and contributing to revitalizing downtown Lansing.

The College currently enrolls a headcount of 10,000 students yearly and has over 650 full-time staff and more than 1,000 part-time staff and faculty. The College offers classes year-round in a three-semester curriculum. The College offers over 200 degree and certificate programs and over 1,000 courses to match career and workforce development pursuits, transfer curricula, and developmental or special interest needs. Courses are offered in one of three academic divisions: Arts and Sciences, Health and Human Services, and Technical Careers. In addition, the Community Education and Workforce Development division provides community and continuing education and includes the College's Business & Community Institute (BCI), which provides customized training directly to regional businesses and manufacturers.

In addition to the Downtown Campus, the College operates a West Campus in Delta Township, the East Campus in East Lansing, the Livingston Center at Parker Campus in Howell, and the Aviation Maintenance Center at the Mason-Jewett Airport in Mason.

CAMPUS MASTER PLANNING

In July 2023, LCC embarked on its next Campus Master Plan (CMP), with LCC partnering with Colliers Engineering & Design (previously Bergmann Architects, Engineers, & Planners) and JMZ Architects & Planners. The subsequent CMP will be developed in alignment with the Strategic Plan, Academic Master Plan, and Federal Agenda. Since it is crucial, developing the CMP has been identified as one of the 20 ongoing projects that comprise LCC's 2021-2024 Strategic Plan. The CMP is scheduled to be completed by June 2024.

Figure 1-1: Lansing Community College Resident Districts
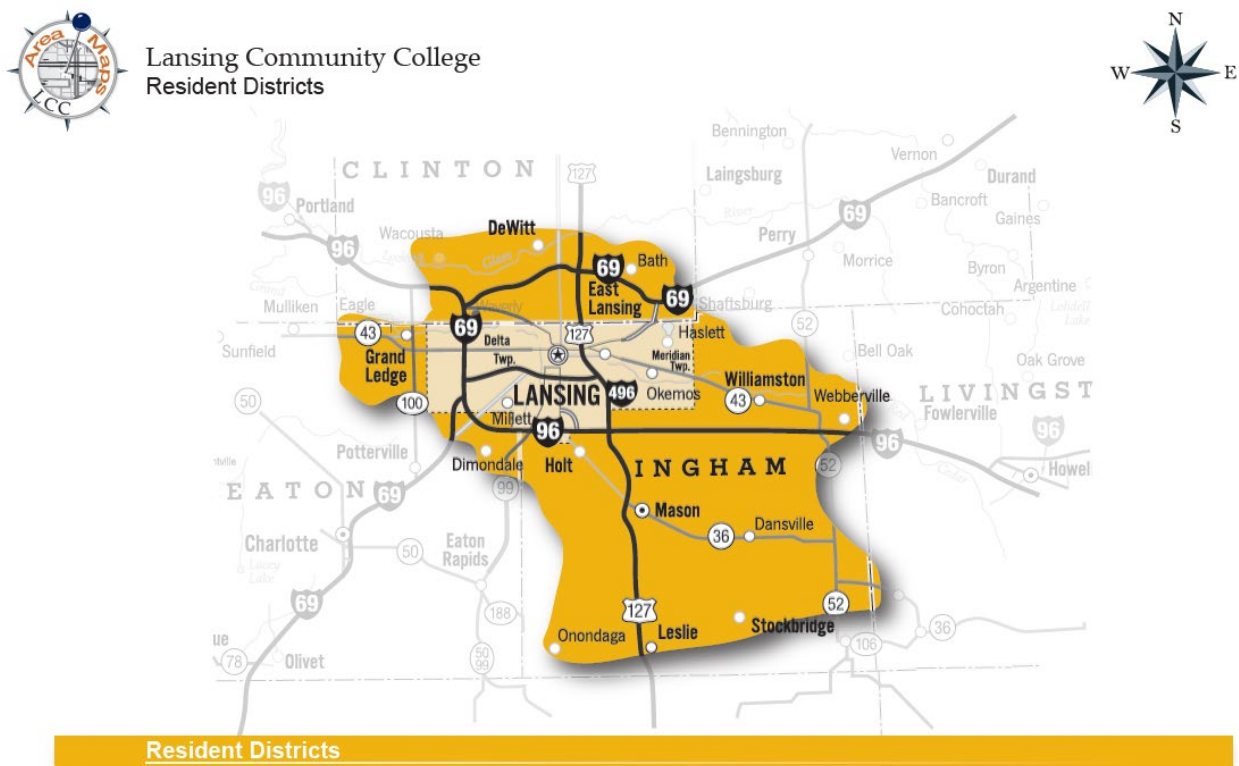
Mission Statement
&
Strategic Plan
2021-2024

Vision

Serving the learning needs of a changing community.

Mission

Lansing Community College provides high-quality education ensuring that all students successfully complete their educational goals while developing life skills necessary for them to enrich and support themselves, their families, and their community as engaged global citizens.

Motto

Where Success Begins

Focus Area 1 - Engaged Learning & Student Success

- Goals
  - Engaged learning at LCC means students experience an excellent, quality education for every mode of instruction, wherein students are active participants in defining and meeting their personal, educational, and career goals. Engaged learning also means faculty and students are actively involved in using all the resources available inside and outside of the classroom. Through this experience, students learn how to connect their education to their career objectives.

  - LCC is committed to supporting the students it serves in successfully completing their individual goals. Student success is defined in a number of different ways, including utilization of campus resources, skill development, retention, persistence, academic completion, transfer, and career readiness or enhancement. Embracing diversity of thought and being is an essential element in achieving student success.

- Strategic Objectives

  - Identify and reduce equity gaps in general education courses and between educational delivery modes

  - Remove barriers and improve systems for students as they move through the "lifecycle" from admission to completion

Focus Area 2 - Leadership, Culture & Communication

- Goals
  - Leadership means LCC will continue to be a nationally recognized, award-winning institution of higher learning that recognizes our employees as our most valuable resource and produces thought leaders who positively influence our diverse student and community populations

  - Culture means LCC will foster a learning and working environment that embraces diversity, equity, inclusion, collaboration, transparency and continuous improvement

  - Communication means LCC endeavors to be a transparent institution with an effective, two-way flow of relevant and timely information with our employees, students and community

- Strategic Objectives
  - Increase engagement and tracking of professional development activities among all employment categories and demographics

  - Develop a collegewide process for continuous improvement of non-academic areas

  - Improve employee satisfaction and engagement

Focus Area 3 - Diversity, Equity and Inclusion

- Goals
  - LCC will embed diversity, equity and inclusion (DEI) principles into all collegewide operations, practices and procedures

  - Diversity refers to the variety of human differences and personal experiences, values and worldviews that arise from cultural and circumstance differences

  - Equity refers to the ongoing practice of recognizing and eliminating barriers and bias within procedures, processes and distribution of resources in the structure of system. To be effective, equity should involve the distribution of resources according to the needs of the recipients

  - Inclusion refers to the act of creating safe and welcoming environments in which every person feels invited, accepted, respected, supported and valued to participate fully. Inclusion demonstrates respect in words and actions, such that everyone can be included or be made part of something

- Strategic Objectives
  - Increase global cultural awareness, knowledge of DEI concepts, and understanding of individuals with disabilities

  - Increase student, employee and community engagement in DEI programming

  - Enhance the diversity of our workforce and student body

Focus Area 4 - Community Engagement

- Goals
  - LCC will continue to build and enhance mutually beneficial relationships with city officials and agencies, neighborhood organizations, local business associations, business and industries, other educational institutions, the faith-based community, and many others on a broad range of issues of mutual interest to the community and the college

- Strategic Objectives
  - 100% of public high schools within Shiawassee, Livingston, Ingham, Ionia, Clinton and Eaton counties (also known as the SLIICE region) partner with LCC to deliver dual credit programming

  - Create a pipeline from every high school in the SLIICE region to LCC

  - Educate employees on LCC's legislative and community engagement activities, and provide employees with access to community engagement activities by June 30, 2024

Focus Area 5 - Competitiveness and Innovation

- Goals
  - LCC will create an environment where problems are solved through elegant simplicity, intelligent risk taking and organizational agility through the practice of evaluating and prioritizing ideas to be transformed into new or improved programs, services or processes

- Strategic Objectives
  - Develop content delivery options that reduce minimum time to credential while maintaining or increasing course and program success rates

  - Increase alignment between college programs and employer needs for fulfillment of high-paying and in-demand jobs

Focus Area 6 - Resource Management & Fiscal Responsibility

- Goals
  - By upholding the values of the college through good stewardship of resources, Resource Management and Fiscal Responsibility addresses the collaborative process of planning and implementing activities that support our ability to make data-informed and transparent decisions. This impacts the financial, human and physical resources, ensuring the health and sustainability of the college

- Strategic Objectives
  - Improve the financial health of the college by improving the college's Composite Financial Index (CFI) in the next three years, to at least 2.0

  - Optimize physical resources for mission alignment
    - Completion of Campus Master Plan
    - Completion of Academic Master Plan
    - Completion of Financial Master Plan

  - Integrate process improvement at all phases of the employee lifecycle to improve career mobility and diversity of LCC employees

Instructional Programming

Lansing Community College Five-Year Capital Outlay Plan Instructional Programming

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Lansing Community College (LCC) was founded in 1957 to fulfill the growing demand for specialized and technical education opportunities for the Greater Lansing's industrial workforce. LCC is a comprehensive community colleges focused upon offering learning opportunities in four areas: career and workforce development, general education, transfer studies, and personal enrichment. LCC is recognized as a local, state, national, and international leader in forging educational partnerships with business, industry, and government to better meet the needs of an ever changing, world-wide market place.

Existing Academic Programs and Projected Programming Changes

LCC's existing academic programming covers certificates and associate degrees in Arts and Sciences that will transfer to four-year colleges/universities, and certificates and associate degrees in Applied Studies preparing students for direct entry into the workforce.

During the pandemic, the College completed the redesign and reimagination of our academic support services for students, specifically in tutoring, computer lab, and library services. This required extensive rebuilding of facilities to house these support services and improve their accessibility to students. The newly renovated Technology and Learning Center building reopened in January 2021 and now functions as a one stop location for academic support services for students and includes many locations for students to study individually or in groups.

Other academic program changes based on job growth and employer need occurred in Business, Health Care, Manufacturing, and other Professional Trades (aviation maintenance, electrical, construction technologies, utility/energy system, etc.). These program changes may require revisions in campus facilities.

Lansing Community College Academic Programs

Technical Careers Division (TC) –
- o Center for Manufacturing Excellence: Robotics and Automated Technology, Computer Automated Design, and Welding
- o Computer Information Technologies: Computer Applications, Computer Support and Repair, Computer Networking, Cybersecurity, and Mobile Application Development, Programming, Web Site Development, Geospatial Science
- o Public Service Careers: Criminal Justice, Fire Science, Fire Academy, Police Academy, and Legal Studies

- o Transportation Maintenance Technologies: Automotive Technology, Aviation Technology, and Heavy Equipment Repair.
- o Utility and Energy Systems: Electrical Technology, Electrical Utility Lineworker, Heating/Ventilating and Air Conditioning Technology
- o Architecture Technology: Building Construction, Civil Technology, Construction

Health and Human Services Division (HHS)

- Allied Health – AAS
- Basic Emergency Medical Technician – CC
- Child Development and Early Education –CA, CC, and AAA
- Community Paramedicine - CC
- Computed Tomography – CC
- Dental Hygiene – AAS
- EKG Technician – CC *
- Emergency Medical Services – AAS
- EMS Instructor-Coordinator – CC
- Group Fitness Instructor – CC
- Human Services – CA and AAS
- Kinesiology/Exercise Science – AAS
- Long-Term Care Nurse Aide – CC *
- Magnetic Resonance Imaging Technology – CA and AAS
- Massage Therapy – CA
- Medical Assistant – CA **
- Medical Insurance Billing and Coding – CC *
- Neurodiagnostic Technologist – CA and AAS
- Nursing – PN Option – CA
- Nursing – RN Option – AAS
- Paramedic – CA ***
- Patient Care Technician – CC *
- Personal Trainer – CA
- Pharmacy Technician – CC *
- Phlebotomy Technician – CC *
- Radiologic Technology – AAS
- Sterile Processing Technician – CC
- Surgical Technology – AAS
- Ultrasound: Diagnostic Medical Sonography – AAS
- Vascular Technology – CC
  * Community Health Service Education Programs
  ** Medical Assistant Apprenticeship (students earn the Medical Assistant – CA)
  *** Military Medic/ Advanced EMT to Paramedic (students earn the Paramedic – CA)

Arts and Sciences Division (A&S)

- School of Business
  - Accounting, Business, Economics, Management and Marketing
- English
- Communication, Media and the Arts Department
  - Art & Design, Communication, Digital Media, Audio and Cinema, World Language, Music, Photographic Imaging Technologies, Sign Language and Theater
- Mathematics and Computer Science Department
  - Applied Math & Statistics and Computer Science
- Science Department
  - Biology, Chemistry, Geography, Geology and Physics
- Social Science and Humanities Department
  - Education, History, Humanities, Political Science, Psychology, Sociology, and Anthropology

Unique programming and characteristics at LCC to fulfill our mission:

Workforce development

The Community Education and Workforce Development Division (CEWD) is the hub for our workforce development programming.

- Business and Community Institute (BCI): BCI is a regional partner to hundreds of companies and organizations in Shiawassee, Livingston, Clinton, Eaton, Ionia, and Ingham counties. BCI offers both standardized classes as well as fully customized learning experiences to meet specific employer training needs at LCC or at the employer's facility. BCI is an essential connection between regional employers and areas of the college.
- Small Business Development Center (SBDC): Working in partnership with the U.S. Small Business Administration and Michigan Economic Development Corporation, the SBDC is part of a national network to help entrepreneurs start, grow, and develop businesses.
- Job Training Center (JTC) provides accelerated training and employability "bootcamps" for the community. It serves as a bridge between the unemployed, underemployed and at-risk populations with employment opportunities.

Adult education focus, Continuing or lifelong learning programming

LCC's adult education programming is coordinated by the Arts and Sciences Division and the Community Education and Workforce Development Division

- Adult Education
  - Foundations for Success is designed to help community members who do not have a high school diploma prepare for the GED. This program is designed to work with community members in small groups and individually to develop the

skills and knowledge to pass their GED. The program is 16 hours per week for 8 weeks.

- o Adult Enrichment courses at Lansing Community College are designed to strengthen our community by invigorating passions and sparking new interests.

K-12 Programming and Partnerships:

- o **Collaborations with Intermediate School Districts or Regional Education Service Agencies (***denotes partnerships where LCC has a signed service agreement with the RESA/ISD**).**
- o **Dual Enrollment** for both applied degrees/certificates and transfer degrees which allows qualified high school students to earn college credit while completing the requirements of the high school diploma
- o **Early/Middle College Partnerships*:** An early middle college (EMC) is a Michigan Department of Education approved five-year program of study. The EMC provides students with an opportunity to earn a high school diploma and one of the following: 60 transferable college credits, an associate degree, a professional certification, the Michigan Early Middle College Association (MEMCA) technical certificate, or the right to participate in a registered apprenticeship.
- o **The Capital Region Technical Early College*** is career and technical education early college partnership with Eaton RESA and Clinton County RESA. The program gives students relevant career-related experience. ERESA's students participate in programs on LCC's Downtown and West Campuses. The CCRESA program is offered in CCRESA's building in St. Johns.
- o **The Early College (TEC) at LCC* is a partnership with Ingham ISD**. TEC was paused for the 2022-23 academic year and will relaunch with a new cohort of students in Fall 2024.
- o **Livingston ESA Early College** at the LCC Livingston Center: students participate in the state's only Nursing Program Pathway. Upon completion of the early college, the students only have 3 semesters of nursing remaining to complete their LCC degree. In Fall 2024, LESA will be adding a Michigan Transfer Agreement pathway.
- o **Shiawassee RESD Early College*** focuses on the Michigan Transfer Agreement pathway.
- o **High School Advantage***: allows high school seniors to earn transferable credit on their high school campus at no cost to the student.
- o **Promise Scholarships** provide financial assistance to graduates of public, private, home and charter schools, along with GED programs to obtain an associate's degree, certificate, or equivalent at a post-secondary partner institution.
- o Lansing Promise serves students who live within the Lansing School District boundaries from 9th-12th grades and graduate from a high school or homeschool within the Lansing School District boundaries. The Lansing Promise provides

tuition assistance for up to 65 credits within a 4-year time frame at Lansing Community College.

- o **H.O.P.E. Scholarship** offers Lansing School District youth an opportunity for a college education and a brighter future. Students were initiated into the program as sixth graders and they promised to finish high school within the Lansing School District; in exchange, they receive up to 65 credits within a four-year time frame at Lansing Community College.
- o **Mason Promise** guarantees funding for two years of Lansing Community College education to selected Mason Public School students. These selected students are chosen by the Mason Public Schools at the end of the fifth grade and then become a Mason Promise Scholar through an induction ceremony.

Community activities

Many community activities are sponsored by LCC throughout the year. Some examples include Kids Camps and STEM Fest for Science and Math for youths and Cybersecurity Career Awareness Week Workshop which are open to the public to learn more about the cyber defense industries and careers cybersecurity. The Dental Hygiene Clinic and Massage Clinic are operated by the HHS Division and are open to the public for dental examinations, teeth cleaning and massages. HHS received a Health Resources and Services Administration (HRSA) grant for a Mobile Health Education Vehicle. The vehicle will be used by trained healthcare professionals for community education, outreach, recruitment and continuing education events. In addition, LCC operates its own conference center facilities, providing space for local employers, professional organizations, and major corporations to hold activities on the LCC campuses.

Geographic service delivery areas

Located in a six-county region, which is served by no other community colleges, LCC has enrollments from rural, suburban, and urban areas. The Downtown Campus houses the majority of the college's programs and offerings. Additional locations include: West Campus, housing most of the college's career and technical activities; the Mason-Jewett Airport, housing the Aviation Technology Center; East Campus, Livingston County Center Campus, and the Job Training Center, located at Capital Area Michigan Works! Serving the unemployed and underemployed. In addition, the college offers training for area businesses and courses in specialized facilities.

Articulation agreements or partnerships with four-year institutions

Each academic year more than 2,100 LCC students transfer to colleges and universities to continue their education. Articulation/Transfer Agreements, along with the Michigan Transfer Agreement, aid in the move to attending colleges and universities across the state of Michigan. Students are offered the opportunity to transfer up to two and sometimes three years of credits from LCC towards their bachelor's degree. To ensure students of a smooth handoff, the

Transfer Center at LCC works as a liaison for students, helping them to navigate course equivalencies, answer questions and seek out resources to assist them in reaching their educational goals.

Initiatives Impacting Facilities Usage

The use of simulation education continues to grow in the healthcare industry, in part, as a result of the unique challenges posed by COVID-19. Simulation-based education has since become a standard learner-centered education approach to assist student learning and understanding in health through a broad spectrum of learning activities such as task training, communication skills, role-play, objective structured clinical examinations, and teamwork, using highly sophisticated computerized manikins, standardized patients, and virtual environments that resemble or simulate actual clinical practice environments. As the use of computerized manikins and virtual learning continues to evolve, it is essential that healthcare education programs have access to the latest technology.

Lansing Community College's (LCC) Health and Human Services (HHS) Division is committed to providing high quality healthcare education and improving patient care and safety through simulation education. The ability to deliver immersive experiences that simulate the work environment is essential to meeting both the learning needs of LCC health career students and the employment needs within the healthcare industry, with special focus on our local healthcare providers. In addition, the interprofessional collaboration that occurs with simulation education allows students to communicate and consider each other's unique perspectives, which will better prepare them to address the multiple factors that influence the health of the individuals, families and communities they will serve. The resulting benefits include improved patient outcomes, fewer preventable errors, reduced healthcare costs, and improved relationships with other healthcare disciplines.

LCC's nationally accredited nursing program currently supplies over 75% of the local and regional healthcare workforce while serving as an anchor institution for a wide range of additional allied health program needs in the region including Surgical Technology, Emergency Medical Services, and Phlebotomy, among others. The College's Health and Human Services Division prides itself on training people in these professions not only to provide exceptional care, but to work together with other professionals as a team of caregivers. As the healthcare landscape in Lansing demands deeper expertise and higher quality training, LCC is working to adapt its methods to meet these needs in not only nursing, but across all allied health professions.

Current research and evaluation of best practices confirm the need to expand our simulated training capacity. Simulation is increasingly being used in healthcare education because it serves as a bridge between theory and clinical practice, creates realistic learning environments where students can be fully immersed in clinical activities and use critical thinking to address

various patient encounters, practice new skills, and learn from mistakes without harming patient safety.

The HHS Division recognizes and is committed to the value of incorporating simulation into healthcare courses. In 2014, LCC's Nursing program was the first community college in the State of Michigan to receive approved accreditation by the Society for Simulation in Healthcare (SSH). In 2019, the program's simulation accreditation was reapproved by the SSH. HHS has a responsibility and commitment to train, educate, and prepare the future healthcare workforce. Our current facilities are limiting the division's ability to keep up with the rapidly expanding field of simulation education. Having a multifaceted simulation facility will better prepare students for the ever-changing workforce demands.

A dedicated HHS Simulation Center will address the following high-priority student and college needs:

- Use high fidelity, virtual, and augmented simulation to create realistic environments that allow students to be fully immersed in clinical activities and use critical thinking skills to address various patient encounters. These immersive experiences allow students to work directly with faculty to achieve clinical outcomes and promote a realistic learning environment where they can assess and identify missteps and correct errors that may not otherwise be addressed. It also allows students to explore the margins of their practices and collaboratively share skills and knowledge.

- Address the different needs of diverse healthcare professionals and patients, therefore advancing LCC's commitment to diversity, equity, and inclusion. In the past, adult manikin simulators tended to be idealized representations of young pale-skinned people, mostly men unless they were birthing simulators. As the use of simulation education advances, it will increasingly add a range of populations and social characteristics to its inventory, such as skin tones, age brackets, race, ethnicity, sexual orientation, gender identity, immigrants and refugees, language, functional and learning abilities, religious beliefs, and socioeconomic status.

- Provide an immersive environment that will help students develop empathy, understand different beliefs and backgrounds, and help create safe and welcoming environments in which every person feels invited, accepted, respected, supported, and valued to participate fully. For example, immersive learning can help develop empathetic communication, immerse students in different cultures, interact with AI avatars that speak languages different from ones they speak, and create environments from foreign countries.

- Deliver immersive education that serves the learning needs of a changing LCC healthcare student community.

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- Provide innovative, high quality, simulation-based educational exercises and performance feedback activities across the continuum of healthcare education

- Develop skills in interpersonal communication, safety, assessment, critical thinking, and team-based patient care.

- Create the opportunity to work with community health care facilities to provide licensure required continuing education courses for existing healthcare workforce.

- Serve the needs of local and regional healthcare partners through cooperative relationships.

The Simulation Center will be fluid and interchangeable, and available for use throughout HHS programs and the college. This flexibility to match students' simulation and extended reality academic needs will provide unique learning experiences across disciplines.

Six large high-fidelity simulation rooms will be used for Nursing courses. These rooms will also be used for multi-patient, breakout, and interprofessional simulations exercises in a variety of medical areas including medical-surgical, obstetrics (OB), pediatrics, intensive care unit and post-anesthesia care unit (PACU). Four smaller clinic low fidelity and standardized patient simulation rooms will be used for nursing courses and mental health scenarios. These rooms would provide opportunities for outpatient setting training, physical assessments, patient history interviews and 1:1 standardized patient interactions. The large OB/OR suite will provide opportunities for interprofessional simulations as well as the opportunity to offer community disaster training in a large, centralized space. Finally, the virtual reality space will provide healthcare students from multiple disciplines as well community partners with the opportunity to engage in lifelike scenarios using augmented reality, for example, a multiple car accident scene, weather disaster, or mass causality incident. Initially, the Simulation Center expansion center will serve approximately 500 students annually in the Paramedic, Surgical Technology and Nursing programs. In the future, the Simulation Center can impact every student at Lansing Community College through the use of virtual reality and simulation. The Simulation Center will also have the opportunity to interact with the community through community training and continuing education.

The need for expanded simulation space will help create highly qualified healthcare workers for the local and regional area. The demand for registered nurses both within and outside of the greater Lansing area is evident. As of July 7, 2023, indeed.com listed 328 registered nurse jobs within a five-mile radius of Lansing and 1,595 within a fifty-mile radius. However, the need for highly trained healthcare workforce is not limited to Lansing. A 2022 Michigan Health Council Healthcare Labor Market Analysis states that the next ten years will see a growing demand for healthcare workers throughout the state, especially in behavioral health, nursing, and patient

support occupations. This demand is driven in part by a number of factors. In addition to the large number of "baby boomers" retiring, many healthcare occupations face recruitment and retention challenges. Turnover continues to be a critical issue across the state, with a 2021 rate of 46 percent.

Healthcare workforce demand also extends nationally. The most recent U.S. Bureau of Labor Statistics' (BLS) *Occupational Outlook Handbook* (Nov. 2022) projects that registered nurse employment will grow six percent from 2021 to 2031, with an average of 203,200 job openings each year. As within the state of Michigan, much of this growth will result from the need to replace workers who transfer to different occupations or exit the labor force due to retirement or other factors. Demand for healthcare services will also increase as the population ages and registered nurses will need to provide increased education and care to patients with chronic conditions, whether at home, in residential care facilities, or in hospitals.

Emergency Medicine Technician (EMT) workforce needs are also expected to grow. The *Occupational Outlook Handbook* projects that the need for EMTs and paramedics will increase by 7 percent over the next ten years, with approximately 20,000 job openings nationally each year. Emergency Medical Services (EMS), including jobs in paramedic and Emergency Medical Technician (EMT) represent a small, but vital market. Currently there are 137 people employed as EMTs and 106 as paramedics (243 in total). These numbers are not forecast to increase over the next ten years. On average, there are 24 annual openings (15 for EMTs and 9 for paramedics) in the Lansing/East Lansing MSA. Pay for these jobs is somewhat low, with both offering a median annual income of around $35,000. Despite these low numbers, however, services provided by these highly trained individuals are essential for the communities they serve.

In addition to significantly altering the 505 Capitol building's interior, exterior work will be needed to align this 1960s building with current construction requirements and best practices. The mechanical/electrical, and glass/ glazing systems will be updated for energy efficiency. Insulation throughout the building will also be replaced to remove any asbestos-containing materials and improve energy efficiency. Building accessibility and compliance with ADA regulations will be addressed at all entrances.

Lansing Community College has a long and distinguished history of training and supporting its men and women of the armed services and supporting their dependents as well. At the heart of the Veterans Resource Center is Student Success. All divisions and departments at Lansing Community College are focused on success for all students through inclusion and completion of degree, transfer, or certificate programs. LCC focuses on this goal with customized learning and support systems that engage every aspect of our college. This "wrap- around" design brings

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together all our student success and/or institutional improvement efforts under one cohesion-building umbrella to provide an environment that reduces non-academic obstructions and facilitates the student learning portion of our mission.

Higher education is critical for veterans discharged from the armed forces. In many cases, military certifications and schooling do not correlate with civilian certifications, degrees, and employment. Even though members of the military go through some of the most rigorous job trainings in the country, once they complete their service to their country, many employers are unsure of the qualifications, these veterans have, and as a result, they are sometimes overlooked for employment opportunities. The employment market is extremely competitive and without the proper degrees and/or certifications, a veteran will fare poorly against their civilian-educated counterparts.

This capital outlay project involves not only creating a new simulation center it is also intended to create a new Veteran Resource Center. The current building from which the LCC's Office of Veterans and Military Affairs is housed in does not currently meet the needs of our veteran, active military, and family students' needs, and as a nationally recognized Best for Vets school and a Gold Status Veteran Friendly school through the Michigan Veteran Affairs Agency, it is our mission to ensure that we meet our student's needs. There will also be potential direct overlap between the Simulation Center and OVMA, as some of the military-connected students at LCC will be attending the HHS programs that will utilize the simulations labs. Both areas will also benefit from a shared meeting space and potentially advantageous physical presence, since the OVMA acts as a liaison between veteran/military students and LCC departments and programs.

LCC is in a unique position unlike most schools throughout Michigan and the U.S where Veteran Resource Centers are traditionally an afterthought. The spaces at other schools are typically a small space with a couple computers and a coffee station. Through the renovation of the 505 building to provide a new Veterans Resource Center (VRC), LCC would provide a state-of-the-art space for our military-connected students which would surpass what is offered to military-connected students at most other colleges and universities within Michigan and the United States. The purpose of the VRC is to have a designated space on campus that offers Reserve, National Guard, active-duty military students, veterans, and dependents a variety of services to assist with overall readjustment and academic experience, as well as a place to study. It would serve as a welcome center, resource center, and support center. For many incoming veterans, traditional new student orientations are not enough; the VRC would provide veteran-specific orientations and workshops aimed at easing veterans' transition from service member to student. There would be many more opportunities to host various veteran organizations for workshops and seminars within the space; something we cannot do now because of the lack of space in the current VRC. We look forward to offering financial, employment, stress management, and VA benefit workshops to our students to better assist them as they transition

back to civilian life. Student veterans will find resources such as a computer lab, academic advising, and available counselling for personal support, along with veteran education benefit assistance and VA healthcare assistance through the VA VITAL program. There will also be spacious tutoring rooms available that will be used for large tutoring/study sessions for military-connected students. We want to allow them to come together and assist each other academically as military-connected peers. The VRC would be a place where student veterans and other military-connected students from across all military branches and all fields of study can come together to encourage and help one another. The ultimate purpose of a VRC is to reach out to more veterans and better accommodate those who seek assistance. We believe that a dedicated space that would be highlighted as a state-of-the-art military-connected student community center, would show our current students, potential future students, and all veterans in our community that LCC is serious about the care we provide to them. By offering this amenity we are hopeful that it will assist us in growing our student veteran and military-connected student population as we continue to provide success within the realm of higher education.

Staffing and Enrollment

Lansing Community College Five-Year Capital Outlay Plan
Staffing and Enrollment

Projected enrollment patterns over the next five years

Enrollment projections were developed using an Autoregressive Integrated Moving Average (ARIMA) model. This approach accounts for the seasonality of enrollment data at a community college and uses past enrollment performance to predict future values. An advantage of this widely accepted approach is that it allows for predictions using past enrollment values and seasonal effects. This is an improvement over methods requiring estimations of future unemployment rates, population, and participation rates that each introduce sources of model error.

Using an ARIMA model, Lansing Community College (LCC) anticipates year-over-year declines in enrollment for the next five years. It is important to note that environmental factors like unemployment rate, high inflation, changes to financial aid regulations, and enrollment levels of local high schools have a significant impact on LCC's enrollment.

Academic Year	Forecasted Credit Hours	Forecasted Billing Hours
2023-2024	184,406	198,928
2024-2025	180,397	194,603
2025-2026	177,916	191,927
2026-2027	176,380	190,270
2027-2028	175,429	189,244

Enrollment patterns for the preceding five years

The college has experienced a prolonged period of declining enrollment following the end of the national recession. These enrollment declines also coincide with a declining high school population and low unemployment rate in LCC's service area.

Academic Year	Fall Headcount	Year-Over-Year Change
2018-19	12,558	-8.68%
2019-20	12,507	-0.41%
2020-21	10,855	-13.21%
2021-22	10,710	-1.34%
2022-23	10,034	-6.31%

Instructional staff/student and administrative staff/student ratios for major academic programs

These ratios are based on the fall 2022 semester student, faculty, and staff counts which were converted to full-time equivalencies (FTE) in order to provide an unduplicated and normalized value. Part-time student and staff headcounts were multiplied by 1/3 and added to the full-time counts (IPEDS methodology) to determine FTE values. An exception to this methodology was used for the nursing program where all students are considered full-time. These ratios are based on a count of program faculty teaching program-specific courses and students majoring in these programs and taking program courses.

Fall 2022 Institutional Ratios (FTE)

- Student to instructional staff = 12 : 1
- Students to all staff = 5.1 : 1

Program Level Ratios for Top Programs by Enrollment

Program	FTE Faculty	FTE Student	Students in Program to Faculty Ratio
Psychology	11	222	20.2
Business Administration	6	172	28.7
Nursing RN	45	313	7.0
Business	6	158	26.3

Future staffing needs based on five-year enrollment estimates and future program changes

Five-year enrollment estimates (shown above as forecasted credit hours) indicate a continued enrollment decline. Improvements to student success initiatives may offset the severity of future declines by improving student retention; large shifts in enrollment are not expected annually. The full-time equivalent (FTE) staffing is expected to maintain the same approximate ratios while allowing for fluctuations in response to unexpected enrollment changes.

Current average class size and projected average class size based on the institution's mission and planned programming changes

The average number of students per section are shown below based on the fall semester (the previous four years have been included to provide context). This ratio is expected to remain fairly stable near 17.5 students per section.

	Total Number of Sections	Total Seatcount	Avg Number of Students per Section
Fall 2018	1,755	31,376	17.9
Fall 2019	1,681	31,540	18.8
Fall 2020	1,472	27,319	18.6
Fall 2021	1,520	26,823	17.6
Fall 2022	1,418	24,770	17.5

Current full and part-time enrollment levels by academic program and access location

Programs are identified by Classification of Instructional Programs (CIP) code, award type, and online access in the first table below. LCC has one campus with three satellite locations located in or around Lansing. If the program is not identified as "Available Online" in the table, it is only available at LCC's main campus or satellite locations.

CIP Code	Program Name	Degree Level	Available Online
1.0101	Agricultural Technology (1451)	Associate of Applied Science	
1.8301	Veterinary Nursing (287)	Associate of Applied Science	
3.0101	Sustainability (1487)	Certificate of Achievement	
3.0101	Conservation & Sustainability (1840)	Associate of Science	
3.0101	Conservation & Sustainability (1844)	Certificate of Achievement	
4.0901	Architecture Technology (1455)	Associate of Applied Science	
4.0901	Architecture Technologist (1809)	Associate of Applied Science	
5.0102	American Studies (142)	Associate of Arts	100% Online
5.0201	African-American History (137)	Associate of Arts	100% Online
9.01	Comm, Journalism & Language (1823)	General Associate	100% Online
9.0101	Communication (136)	Associate of Arts	
9.0402	Journalism (1628)	Associate of Arts	100% Online
9.0901	Comm Journ Lang Enhanced (1834)	Associate of Applied Arts	
11.0101	Computer Science (169)	Associate of Science	

11.0202	Computer Programmer/Analyst (113)	Associate of Business	100% Online
11.0202	Microsoft Office Specialist (841)	Certificate of Completion	100% Online
11.0202	Computer Technology Basics (844)	Certificate of Completion	100% Online
11.0202	Computer Programmer/Analyst (969)	Certificate of Completion	100% Online
11.0202	Computer Software Tester (1633)	Certificate of Achievement	
11.0202	Mobile Application Developer (1712)	Certificate of Achievement	
11.0901	Web Site Developer (843)	Certificate of Completion	100% Online
11.0901	Computer Networking Tech (1453)	Associate of Business	
11.0901	Cisco Certified Network Prep (1469)	Certificate of Completion	
11.0902	Cloud Computing (1839)	Associate of Applied Science	
11.1003	Computer Security Controls (1818)	Certificate of Completion	
11.1003	Cybersecurity (1832)	Associate of Applied Science	100% Online
11.1003	Cybersecurity Foundations (1833)	Certificate of Completion	100% Online
11.1006	Info Tech Foundations (766)	Certificate of Completion	100% Online
13.0406	Education (1624)	Associate of Arts	100% Online
13.1206	Education (1843)	General Associate	
13.1501	Teacher Paraprofessional (829)	Certificate of Completion	
13.1501	Teacher Paraprofessional (1039)	Associate of Applied Science	
14.1201	Engineering-Physics (1619)	Associate of Science	
14.4201	Robotics and Automated Tech (1605)	Certificate of Achievement	
14.4201	Robotics and Automated Tech (1789)	Certificate of Completion	
15.0201	Civil Technology (178)	Associate of Applied Science	
15.0201	Survey and Material Tech (1011)	Certificate of Completion	

15.0403	Mechanical Systems (147)	Certificate of Achievement	
15.0403	Mechanical Systems (173)	Associate of Applied Science	
15.0406	Mechatronics-Maint Tech (1780)	Associate of Applied Science	
15.0613	Indus Manuf Engineer Tech (110)	Associate of Applied Science	
15.1102	Geospatial Science Technician (224)	Associate of Applied Science	
15.1102	Geospatial Science (834)	Certificate of Achievement	
15.1202	Computer Technician (168)	Certificate of Achievement	
15.1202	Computer Support Technician (743)	Associate of Applied Science	
15.1306	Computer Automated Design (1799)	Certificate of Completion	
15.1306	Computer Automated Design (1800)	Certificate of Achievement	
15.1306	Computer Automated Design (1801)	Associate of Applied Science	
15.1701	Energy Management Specialist (1606)	Associate of Applied Science	
15.1701	Energy Auditor (1813)	Certificate of Completion	
16.0101	World Language (132)	Associate of Arts	100% Online
16.0302	Japanese Studies (1787)	Certificate of Completion	100% Online
16.0905	Spanish Studies (1788)	Certificate of Completion	100% Online
16.1603	Sign Language Interpreter (187)	Certificate of Achievement	
16.1603	Sign Language Interpreter (282)	Associate of Applied Arts	
19.0709	Child Develop & Early Educ (133)	Certificate of Achievement	
19.0709	Child Dev and Early Ed (1637)	Associate of Applied Arts	
19.0709	Child Dev and Early Ed (1815)	Certificate of Completion	
22.0302	Legal Studies (101)	Associate of Business	100% Online

22.0302	Legal Studies Post-Bachelor (744)	Certificate of Achievement	100% Online
23.0101	Literature (124)	Associate of Arts	
23.1302	Creative Writing (1623)	Associate of Arts	
24.0101	General Associate (863)	General Associate	100% Online
24.0101	Transfer Studies (1482)	Certificate of Achievement	100% Online
24.0101	Transfer Studies (1779)	Associate of Arts	100% Online
24.0101	Transfer Studies (1782)	Associate of Science	100% Online
24.0103	Humanities (119)	Associate of Arts	100% Online
26.0101	Biology (221)	Associate of Science	
26.1201	Biotechnology (212)	Associate of Applied Science	
26.1201	Biological Lab Techniques (1608)	Certificate of Completion	
27.0101	Mathematics (1620)	Associate of Science	
30.0101	Science and Mathematics (1831)	General Associate	
30.4101	Geology (1841)	Associate of Science	
31.0505	Kinesiology/Exercise Science (1639)	Associate of Applied Science	
31.0507	Group Fitness Leader (1704)	Certificate of Completion	
31.0507	Personal Trainer (1705)	Certificate of Achievement	
38.0101	Philosophy (159)	Associate of Arts	100% Online
38.0201	Religious Studies (751)	Associate of Arts	
40.0501	Chemistry (117)	Associate of Science	
41.0301	Chemical Technology (163)	Associate of Applied Science	
42.0101	Psychology (215)	Associate of Arts	100% Online
43.0102	Correctional Officer (840)	Certificate of Completion	100% Online
43.0102	Criminal Just-Corrections (1209)	Associate of Applied Science	
43.0102	Local Corrections Officer (1810)	Certificate of Completion	
43.0107	Criminal Justice (146)	Associate of Arts	100% Online
43.0107	Criminal Just - Law Enforce (1210)	Associate of Applied Science	

43.0107	Mid-Michigan Police Academy (1707)	Certificate of Completion	
43.0107	CJ - Digital Evidence Spec (1802)	Certificate of Completion	
43.0107	CJ - Digital Evidence Spec (1803)	Associate of Applied Science	
43.011	Juvenile Justice (916)	Certificate of Achievement	
43.011	Criminal Just - Juv Spec (1475)	Associate of Applied Science	
43.0203	Fire Science Technology (123)	Associate of Applied Science	
43.0203	Fire Science Academy (709)	Certificate of Completion	
43.0203	Fire Science/Basic EMT (1057)	Associate of Applied Science	
44	Human Services (915)	Associate of Applied Science	
44	Human Services (1199)	Certificate of Completion	
44	Human Services (1201)	Certificate of Achievement	
45.0101	Social Sciences (1842)	General Associate	
45.0201	Anthropology (1621)	Associate of Arts	100% Online
45.0301	Applied Field Survey Methods (1836)	Certificate of Completion	
45.0301	Field Survey Method & Analy (1837)	Certificate of Achievement	
45.0601	Economics (230)	Associate of Arts	100% Online
45.0701	Geography (1824)	Associate of Science	
45.0702	Geospatial Science (1820)	Certificate of Completion	
45.1001	Political Science (750)	Associate of Arts	
45.1101	Sociology (753)	Associate of Arts	100% Online
46.0201	Building Construction (135)	Certificate of Achievement	
46.0201	Building Construction (1714)	Certificate of Completion	
46.0201	Building Construction (1766)	Associate of Applied Science	
46.0301	Customer Energy Specialist (893)	Certificate of Achievement	

46.0301	Customer Energy Specialist (1022)	Associate of Applied Science	
46.0301	Energy Industry Fundamentals (1777)	Certificate of Completion	
46.0302	Electrical Technology (134)	Associate of Applied Science	
46.0302	Elect Tech - Construction (759)	Certificate of Achievement	
46.0302	Elect Tech - Control Maint (760)	Certificate of Achievement	
46.0302	Electrical Wiring (964)	Certificate of Completion	
46.0302	Electrical Machine Controls (966)	Certificate of Completion	
46.0302	Inside Wireman Apprentice (1445)	Associate of Applied Science	
46.0302	Control Panel Wiring (1471)	Certificate of Completion	
46.0302	Electrical Apprenticeship (1570)	Certificate of Achievement	
46.0303	Electrical Utility/Lineworker (1468)	Certificate of Achievement	
46.0303	Electrical Utility/Lineworker (1783)	Associate of Applied Science	
46.0401	Building Maintenance (1481)	Certificate of Achievement	
47.0201	Heating and Air Conditioning (832)	Certificate of Achievement	
47.0201	Heating and Air Conditioning (836)	Associate of Applied Science	
47.0201	HVAC/R-Energy Mgt Eng Tech (1257)	Associate of Applied Science	
47.0302	Heavy Equip Repair Techn (1041)	Certificate of Achievement	
47.0302	Heavy Equip Repair Techn (1055)	Associate of Applied Science	
47.0303	Industrial Maint Technician (1484)	Certificate of Achievement	
47.0604	Automotive Technologies (1790)	Certificate of Achievement	
47.0604	Automotive Technologies (1791)	Associate of Applied Science	
47.0604	Auto:Electric Drive/AltFuel (1792)	Certificate of Achievement	

47.0604	Auto:Brakes Suspension Syst (1793)	Certificate of Completion	
47.0604	Auto:Elect HVAC Diag Spec (1794)	Certificate of Completion	
47.0604	Auto:Engine Transmission (1795)	Certificate of Completion	
47.0604	Auto:EnginePerf Drivability (1796)	Certificate of Completion	
47.0607	Airframe Maintenance Tech (757)	Associate of Applied Science	
47.0607	Airframe Maintenance Tech (1036)	Certificate of Achievement	
47.0608	Powerplant Maint Tech (745)	Associate of Applied Science	
47.0608	Powerplant Maintenance Tech (1035)	Certificate of Achievement	
47.0609	Basic Aviation Technology (1037)	Certificate of Completion	
48.0501	Manufact Engineering Tech (1359)	Associate of Applied Science	
48.0501	Machine Tool Technology (1470)	Certificate of Achievement	
48.0501	CNC Machine Technology (1797)	Certificate of Completion	
48.0501	CNC Machine Technology (1798)	Certificate of Achievement	
48.0508	Welding Technology (156)	Certificate of Achievement	
48.0508	Welding Technology (186)	Associate of Applied Science	
48.0508	Welding Technology (1356)	Certificate of Completion	
49.0101	UAS Remote Pilot and Maint (1825)	Certificate of Completion	
50.0409	Graphic Design (1020)	Certificate of Achievement	
50.0409	Graphic Communication (1533)	Associate of Applied Arts	
50.0501	Theatre (278)	Associate of Applied Arts	
50.0602	Digital Media: Audio Rec Prod (1448)	Certificate of Achievement	
50.0602	Digital Media: Cinematography (1450)	Certificate of Completion	

50.0602	Digital Media: Transfer (1452)	Associate of Applied Science	
50.0602	Digital Media: Video/Cinema (1454)	Certificate of Achievement	
50.0602	Digital Media: Audio (1457)	Certificate of Completion	
50.0602	Digital Media Specialist (1458)	Associate of Applied Science	
50.0605	Photography (963)	Certificate of Completion	
50.0701	Art Foundation (1716)	Associate of Arts	
50.0702	Studio Art (1781)	Associate of Fine Arts	
50.0703	Art History (746)	Associate of Arts	100% Online
50.0901	Musicianship Studies (1352)	Certificate of Completion	
50.0901	Music Transfer (1827)	Associate of Music	
50.0901	Music (1828)	General Associate	
50.0901	Music Ed/Pre-Music Therapy (1829)	Associate of Music	
50.0913	Music Technology (1358)	Certificate of Completion	
50.0917	Music Industry (1830)	Associate of Music	
51	Pre-Medical Studies (754)	Associate of Science	
51.0602	Dental Hygiene (279)	Associate of Applied Science	
51.0714	Med Insur Billing & Coding (1488)	Certificate of Completion	
51.0801	Medical Assistant (1811)	Certificate of Achievement	
51.0805	Pharmacy Technician (1024)	Certificate of Completion	
51.0902	EKG Technician (1442)	Certificate of Completion	
51.0903	Neurodiagnostic Technology (1808)	Certificate of Achievement	
51.0903	Neurodiagnostic Technology (1812)	Associate of Applied Science	
51.0904	Paramedic (272)	Certificate of Achievement	
51.0904	Emergency Medical Services (276)	Associate of Applied Science	

51.0904	EMS Instructor-Coordinator (1638)	Certificate of Completion	
51.0904	Basic Emergency Med Techn (1817)	Certificate of Completion	
51.0904	Community Paramedicine (1819)	Certificate of Completion	
51.0909	Surgical Technology (1021)	Associate of Applied Science	
51.091	Ultrasound: DMS (790)	Associate of Applied Science	
51.091	Vascular Technology (1604)	Certificate of Completion	
51.0911	Radiologic Technology (196)	Associate of Applied Science	
51.0911	Computed Tomography (1816)	Certificate of Completion	
51.092	MRI Technology (1602)	Certificate of Achievement	
51.092	MRI Technology (1632)	Associate of Applied Science	
51.1009	Phlebotomy Technician (1010)	Certificate of Completion	
51.1012	Sterile Processing Technician (1017)	Certificate of Completion	
51.3501	Massage Therapy (1826)	Certificate of Completion	
51.3801	Nursing - RN Option (222)	Associate of Applied Science	
51.3901	Nursing - PN Option (235)	Certificate of Achievement	
51.3902	Long-Term Care Nurse Aide (1025)	Certificate of Completion	
51.3902	Patient Care Technician (1784)	Certificate of Completion	
51.9999	Allied Health (1814)	Associate of Applied Science	
52.0101	Business Transfer Studies (1622)	Associate of Arts	100% Online
52.0101	Business (1821)	General Associate	100% Online
52.0101	Business, Enhanced (1822)	Associate of Business	
52.0201	Business Administration (243)	Associate of Business	
52.0201	Management and Leadership (245)	Associate of Business	100% Online

52.0201	Management (249)	Certificate of Achievement	100% Online
52.0201	Advanced Management (280)	Certificate of Achievement	100% Online
52.0208	E-Business (839)	Associate of Business	100% Online
52.0208	E-Business (845)	Certificate of Achievement	100% Online
52.0301	Accounting, CPA Exam Prep (255)	Associate of Business	100% Online
52.0302	Accounting (162)	Associate of Business	100% Online
52.0302	Accounting (714)	Certificate of Achievement	100% Online
52.0302	Bookkeeping (1292)	Certificate of Completion	100% Online
52.0411	Computer Support Specialist (713)	Associate of Business	
52.0801	Financial Institutions (103)	Associate of Business	100% Online
52.0801	Financial Institutions (151)	Certificate of Completion	100% Online
52.1001	Human Resource Management (712)	Associate of Business	100% Online
52.1101	International Business (240)	Associate of Business	100% Online
52.1701	Insurance and Risk Management (1804)	Associate of Business	
52.1701	Insurance & Risk Management (1838)	Certificate of Completion	
52.1801	Marketing (204)	Associate of Business	
52.1801	Marketing (225)	Certificate of Achievement	
52.1804	Field Sales and Marketing (190)	Associate of Business	
52.1804	Sales Specialist (242)	Certificate of Achievement	100% Online
52.2001	Construction Management (1634)	Associate of Applied Science	
52.2001	Construction Management (1635)	Certificate of Achievement	
54.0101	History (197)	Associate of Arts	100% Online

The following table shows a breakdown of full and part-time students by program as well as the enrollment as a percentage of all programs.

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
General Associate (863)	24.0101	317	862	1,179	16	114	1,309	12.7%
Nursing PN-RN Pre Admit (P006)	51.3801	165	448	613	3	4	620	6.0%
Psychology (215)	42.0101	123	297	420	0	1	421	4.1%
Business Administration (243)	52.0201	82	270	352	0	0	352	3.4%
Transfer Studies (1779)	24.0101	154	179	333	0	0	333	3.2%
Nursing - RN Option (222)	51.3801	3	310	313	0	0	313	3.0%
Transfer Studies (1782)	24.0101	135	153	288	0	0	288	2.8%
Business (1821)	52.0101	109	146	255	1	0	256	2.5%
Guest Student (2)	24.0102	24	159	183	30	0	213	2.1%
Biology (221)	26.0101	77	122	199	0	1	200	1.9%
Computer Science (169)	11.0101	75	115	190	1	0	191	1.8%
Education (1624)	13.0406	61	123	184	1	0	185	1.8%
Engineering-Physics (1619)	14.1201	73	109	182	1	0	183	1.8%
Business Transfer Studies (1622)	52.0101	79	101	180	0	0	180	1.7%
Criminal Justice (146)	43.0107	49	97	146	2	28	176	1.7%
Kinesiology/Exercise Science (1639)	31.0505	59	79	138	2	31	171	1.7%
Undecided-Program Exploration (99)	24.0102	11	133	144	6	0	150	1.5%
Computer Networking Tech (1453)	11.0901	42	108	150	0	0	150	1.5%
Diagnostic Med Sonography Pre (P002)	51.0910	48	98	146	0	0	146	1.4%
Welding Technology (186)	48.0508	20	61	81	0	57	138	1.3%
Allied Health (1814)	51.9999	27	102	129	1	2	132	1.3%
Accounting (162)	52.0302	37	93	130	0	0	130	1.3%
Computer Programmer/Analyst (113)	11.0202	25	91	116	0	0	116	1.1%
Dental Hygiene Pre-Admit (P001)	51.0602	41	74	115	0	0	115	1.1%
Automotive Technologies (1791)	47.0604	15	44	59	0	54	113	1.1%
Airframe Maintenance Tech (757)	47.0607	86	8	94	0	1	95	0.9%
Child Dev and Early Ed (1637)	19.0709	18	72	90	1	0	91	0.9%
Criminal Just - Law Enforce (1210)	43.0107	22	38	60	2	24	86	0.8%
Electrical Technology (134)	46.0302	15	64	79	0	0	79	0.8%
Sign Language Interpreter (282)	16.1603	9	66	75	3	0	78	0.8%
Electrical Apprenticeship (1570)	46.0302	0	76	76	0	1	77	0.7%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Veterinary Nursing (287)	1.8301	21	54	75	1	0	76	0.7%
Marketing (204)	52.1801	32	40	72	1	0	73	0.7%
Human Services (915)	44.0000	19	52	71	1	0	72	0.7%
Graphic Communication (1533)	50.0409	14	35	49	0	22	71	0.7%
Communication (136)	9.0101	23	46	69	1	0	70	0.7%
Sociology (753)	45.1101	15	54	69	0	0	69	0.7%
Legal Studies (101)	22.0302	15	53	68	0	0	68	0.7%
Mechatronics-Maint Tech (1780)	15.0406	8	47	55	0	12	67	0.6%
Radiologic Technology Pre (P008)	51.0907	16	47	63	0	0	63	0.6%
Construction Management (1634)	52.2001	22	37	59	0	0	59	0.6%
Political Science (750)	45.1001	15	40	55	0	1	56	0.5%
Building Construction (1766)	46.0201	9	20	29	0	23	52	0.5%
Manufact Engineering Tech (1359)	48.0501	8	30	38	0	13	51	0.5%
Human Resource Management (712)	52.1001	9	40	49	0	0	49	0.5%
Pre-Medical Studies (754)	51.0000	17	31	48	0	0	48	0.5%
Electrical Utility/Lineworker (1468)	46.0303	11	37	48	0	0	48	0.5%
Dental Hygiene (279)	51.0602	45	0	45	0	0	45	0.4%
Management and Leadership (245)	52.0201	8	36	44	0	0	44	0.4%
Personal Interest (98)	24.0102	1	39	40	3	0	43	0.4%
Heating and Air Conditioning (836)	47.0201	8	34	42	0	0	42	0.4%
Creative Writing (1623)	23.1302	13	29	42	0	0	42	0.4%
History (197)	54.0101	13	27	40	0	0	40	0.4%
Digital Media Specialist (1458)	50.0602	11	28	39	0	0	39	0.4%
Computer Graphics Animation (284)	10.0304	10	28	38	0	0	38	0.4%
Surgical Technology Pre (P009)	51.0909	7	30	37	0	0	37	0.4%
Chemistry (117)	40.0501	12	24	36	0	0	36	0.3%
Radiologic Technology (196)	51.0911	15	21	36	0	0	36	0.3%
Cybersecurity (1832)	11.1003	15	21	36	0	0	36	0.3%
Transfer to Another Inst (1)	24.0102	7	27	34	0	0	34	0.3%
Art Foundation (1716)	50.0701	13	21	34	0	0	34	0.3%
Fire Science/Basic EMT (1057)	43.0203	19	14	33	0	0	33	0.3%
Electrical Utility/Lineworker (1783)	46.0303	7	21	28	0	0	28	0.3%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Economics (230)	45.0601	10	17	27	0	0	27	0.3%
Architecture Technology (1455)	4.0901	8	19	27	0	0	27	0.3%
Mathematics (1620)	27.0101	3	24	27	0	0	27	0.3%
Financial Institutions (103)	52.0801	11	15	26	0	0	26	0.3%
Medical Assistant (1811)	51.0801	18	7	25	1	0	26	0.3%
Computer Support Technician (743)	15.1202	6	18	24	0	1	25	0.2%
Social Science (121)	45.0101	10	14	24	0	0	24	0.2%
Emergency Medical Services (276)	51.0904	7	16	23	1	0	24	0.2%
Theatre (278)	50.0501	7	17	24	0	0	24	0.2%
Journalism (1628)	9.0402	11	13	24	0	0	24	0.2%
MRI Technology (1632)	51.0920	7	17	24	0	0	24	0.2%
Digital Media: Transfer (1452)	50.0602	16	7	23	0	0	23	0.2%
Computer Automated Design (1801)	15.1306	5	18	23	0	0	23	0.2%
Insurance and Risk Management (1804)	52.1701	9	14	23	0	0	23	0.2%
Accounting, CPA Exam Prep (255)	52.0301	5	17	22	0	0	22	0.2%
Studio Art (1781)	50.0702	10	12	22	0	0	22	0.2%
Neurodiagnostic Technology (1812)	51.0903	15	7	22	0	0	22	0.2%
Surgical Technology (1021)	51.0909	19	2	21	0	0	21	0.2%
Literature (124)	23.0101	3	17	20	0	0	20	0.2%
Med Insur Billing & Coding (1488)	51.0714	1	19	20	0	0	20	0.2%
Ultrasound: DMS (790)	51.0910	19	0	19	0	0	19	0.2%
Transfer Studies (1482)	24.0101	8	11	19	0	0	19	0.2%
Environmental Technology (793)	15.0507	5	13	18	0	0	18	0.2%
Computer Programmer/Analyst (969)	11.0202	1	17	18	0	0	18	0.2%
Music (1477)	50.0901	6	12	18	0	0	18	0.2%
Computer Support Specialist (713)	52.0411	5	12	17	0	0	17	0.2%
Graphic Design (1020)	50.0409	4	12	16	0	1	17	0.2%
Agricultural Technology (1451)	1.0101	1	16	17	0	0	17	0.2%
CJ - Digital Evidence Spec (1803)	43.0107	4	13	17	0	0	17	0.2%
Photography (963)	50.0605	1	13	14	2	0	16	0.2%
Architecture Technologist (1809)	4.0901	2	14	16	0	0	16	0.2%
Massage Therapy (1255)	51.3501	10	5	15	0	0	15	0.1%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Anthropology (1621)	45.0201	3	12	15	0	0	15	0.1%
Music Industry (1807)	50.0903	6	9	15	0	0	15	0.1%
Massage Therapy (1826)	51.3501	0	15	15	0	0	15	0.1%
Sign Language Interpreter (187)	16.1603	1	13	14	0	0	14	0.1%
Art History (746)	50.0703	5	8	13	1	0	14	0.1%
HVAC/R-Energy Mgt Eng Tech (1257)	47.0201	5	9	14	0	0	14	0.1%
Welding Technology (1356)	48.0508	0	14	14	0	0	14	0.1%
Personal Trainer (1705)	31.0507	3	11	14	0	0	14	0.1%
Biotechnology (212)	26.1201	6	7	13	0	0	13	0.1%
E-Business (839)	52.0208	3	10	13	0	0	13	0.1%
Criminal Just - Juv Spec (1475)	43.0110	3	10	13	0	0	13	0.1%
Automotive Technologies (1790)	47.0604	5	8	13	0	0	13	0.1%
Geography (749)	45.0701	1	11	12	0	0	12	0.1%
Digital Media: Video/Cinema (1454)	50.0602	2	10	12	0	0	12	0.1%
Philosophy (159)	38.0101	1	10	11	0	0	11	0.1%
Accounting (714)	52.0302	3	8	11	0	0	11	0.1%
Elect Tech - Construction (759)	46.0302	1	10	11	0	0	11	0.1%
Web Site Developer (843)	11.0901	1	10	11	0	0	11	0.1%
Paramedic (272)	51.0904	9	1	10	0	0	10	0.1%
Legal Studies Post-Bachelor (744)	22.0302	3	7	10	0	0	10	0.1%
Heating and Air Conditioning (832)	47.0201	5	5	10	0	0	10	0.1%
Phlebotomy Technician (1010)	51.1009	0	10	10	0	0	10	0.1%
Japanese Studies (1787)	16.0302	0	10	10	0	0	10	0.1%
Welding Technology (156)	48.0508	0	8	8	1	0	9	0.1%
Mechanical Systems (173)	15.0403	0	9	9	0	0	9	0.1%
Civil Technology (178)	15.0201	2	6	8	1	0	9	0.1%
International Business (240)	52.1101	1	8	9	0	0	9	0.1%
International Studies (252)	45.0901	2	6	8	1	0	9	0.1%
Heavy Equip Repair Techn (1055)	47.0302	4	5	9	0	0	9	0.1%
Robotics and Automated Tech (1789)	14.4201	2	6	8	1	0	9	0.1%
Child Develop & Early Educ (133)	19.0709	1	7	8	0	0	8	0.1%
Management (249)	52.0201	1	7	8	0	0	8	0.1%
Teacher Paraprofessional (1039)	13.1501	2	6	8	0	0	8	0.1%
Industrial Maint Technician (1484)	47.0303	0	8	8	0	0	8	0.1%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Correctional Officer (840)	43.0102	0	0	0	7	0	7	0.1%
Pharmacy Technician (1024)	51.0805	1	5	6	1	0	7	0.1%
Criminal Just-Corrections (1209)	43.0102	0	7	7	0	0	7	0.1%
Spanish Studies (1788)	16.0905	1	6	7	0	0	7	0.1%
English as a Second Language (97)	32.0109	2	4	6	0	0	6	0.1%
Mechanical Systems (147)	15.0403	0	6	6	0	0	6	0.1%
Photographic Imaging (277)	50.0605	2	4	6	0	0	6	0.1%
Bookkeeping (1292)	52.0302	0	6	6	0	0	6	0.1%
Music Technology (1358)	50.0913	1	5	6	0	0	6	0.1%
Child Dev and Early Ed (1815)	19.0709	0	6	6	0	0	6	0.1%
Science and Mathematics (1831)	30.0101	4	2	6	0	0	6	0.1%
Fire Science Technology (123)	43.0203	1	4	5	0	0	5	0.0%
Computer Technician (168)	15.1202	2	3	5	0	0	5	0.0%
Geospatial Science Technician (224)	15.1102	1	4	5	0	0	5	0.0%
Advanced Management (280)	52.0201	1	3	4	1	0	5	0.0%
Religious Studies (751)	38.0201	3	2	5	0	0	5	0.0%
Elect Tech - Control Maint (760)	46.0302	0	5	5	0	0	5	0.0%
Computer Technology Basics (844)	11.0202	0	5	5	0	0	5	0.0%
Robotics and Automated Tech (1605)	14.4201	2	3	5	0	0	5	0.0%
CNC Machine Technology (1797)	48.0501	1	4	5	0	0	5	0.0%
Basic Emergency Med Techn (1817)	51.0904	4	1	5	0	0	5	0.0%
Music (1828)	50.0901	2	2	4	1	0	5	0.0%
Music Ed/Pre-Music Therapy (1829)	50.0901	3	2	5	0	0	5	0.0%
Music Industry (1830)	50.0917	2	3	5	0	0	5	0.0%
Humanities (119)	24.0103	1	3	4	0	0	4	0.0%
Marketing (225)	52.1801	2	2	4	0	0	4	0.0%
Electrical Wiring (964)	46.0302	0	4	4	0	0	4	0.0%
Basic Aviation Technology (1037)	47.0609	1	2	3	1	0	4	0.0%
Machine Tool Technology (1470)	48.0501	0	4	4	0	0	4	0.0%
Energy Management Specialist (1606)	15.1701	0	4	4	0	0	4	0.0%
Computer Software Tester (1633)	11.0202	0	4	4	0	0	4	0.0%
Paramedic Pre-Admit (P007)	51.0904	3	1	4	0	0	4	0.0%
Building Construction (135)	46.0201	1	2	3	0	0	3	0.0%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
African-American History (137)	5.0201	1	2	3	0	0	3	0.0%
American Studies (142)	5.0102	1	2	3	0	0	3	0.0%
Automotive Technology (238)	47.0604	1	2	3	0	0	3	0.0%
Fire Science Academy (709)	43.0203	3	0	3	0	0	3	0.0%
Microsoft Office Specialist (841)	11.0202	0	3	3	0	0	3	0.0%
Electrical Machine Controls (966)	46.0302	0	3	3	0	0	3	0.0%
Digital Media: Audio Rec Prod (1448)	50.0602	0	3	3	0	0	3	0.0%
Cisco Certified Network Prep (1469)	11.0901	0	3	3	0	0	3	0.0%
Construction Management (1635)	52.2001	2	1	3	0	0	3	0.0%
Mid-Michigan Police Academy (1707)	43.0107	2	0	2	1	0	3	0.0%
CNC Machine Technology (1798)	48.0501	0	3	3	0	0	3	0.0%
CJ - Digital Evidence Spec (1802)	43.0107	0	3	3	0	0	3	0.0%
Entrepreneurial Studies (1805)	52.0701	1	2	3	0	0	3	0.0%
Computer Security Controls (1818)	11.1003	1	2	3	0	0	3	0.0%
Chemical Technology (163)	41.0301	1	1	2	0	0	2	0.0%
Field Sales and Marketing (190)	52.1804	1	1	2	0	0	2	0.0%
Powerplant Maint Tech (745)	47.0608	0	2	2	0	0	2	0.0%
Info Tech Foundations (766)	11.1006	0	2	2	0	0	2	0.0%
Teacher Paraprofessional (829)	13.1501	1	1	2	0	0	2	0.0%
E-Business (845)	52.0208	0	2	2	0	0	2	0.0%
Long-Term Care Nurse Aide (1025)	51.3902	0	2	2	0	0	2	0.0%
Building Maintenance (1481)	46.0401	1	1	2	0	0	2	0.0%
Sustainability (1487)	3.0101	1	1	2	0	0	2	0.0%
MRI Technology (1602)	51.0920	0	2	2	0	0	2	0.0%
EMS Instructor-Coordinator (1638)	51.0904	0	2	2	0	0	2	0.0%
Energy Industry Fundamentals (1777)	46.0301	0	2	2	0	0	2	0.0%
Auto:Engine Transmission (1795)	47.0604	1	0	1	1	0	2	0.0%
Computer Automated Design (1799)	15.1306	0	2	2	0	0	2	0.0%
Cybersecurity Foundations (1833)	11.1003	0	2	2	0	0	2	0.0%
Machine Trades Apprentice (94)		0	1	1	0	0	1	0.0%
Industry Apprentice (95)	47.0303	0	1	1	0	0	1	0.0%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Indus Manuf Engineer Tech (110)	15.0613	0	1	1	0	0	1	0.0%
Engineering (112)	14.0101	0	1	1	0	0	1	0.0%
World Language (132)	16.0101	0	1	1	0	0	1	0.0%
Financial Institutions (151)	52.0801	0	1	1	0	0	1	0.0%
Comp-Aided Drafting/Design (165)	15.1302	0	1	1	0	0	1	0.0%
Computer Graphics, Multimedia (194)	10.0304	0	1	1	0	0	1	0.0%
Landscape Architecture (203)	4.9999	0	1	1	0	0	1	0.0%
Sales Specialist (242)	52.1804	0	1	1	0	0	1	0.0%
Mechanical Engineering, MSU (339)	24.0102	0	1	1	0	0	1	0.0%
Computer Science, MSU (367)	24.0102	0	1	1	0	0	1	0.0%
Atmos/Ocean/Space Sci,UM-AA (495)		0	1	1	0	0	1	0.0%
Elementary Education (747)	13.1202	0	1	1	0	0	1	0.0%
Geospatial Science (834)	15.1102	1	0	1	0	0	1	0.0%
Massage Therapy (837)	51.3501	0	1	1	0	0	1	0.0%
CAD/CAM Technician (892)	15.1302	0	1	1	0	0	1	0.0%
Motion Picture Direction (900)	50.0602	0	1	1	0	0	1	0.0%
Entrepreneurial Studies (903)	52.0701	0	1	1	0	0	1	0.0%
Computer Graphics, Web Design (914)	11.0801	0	1	1	0	0	1	0.0%
Juvenile Justice (916)	43.0110	0	1	1	0	0	1	0.0%
Sterile Processing Technician (1017)	51.1012	0	1	1	0	0	1	0.0%
Criminal Justice 3+1, FSU (1029)	43.0107	0	1	1	0	0	1	0.0%
Airframe Maintenance Tech (1036)	47.0607	1	0	1	0	0	1	0.0%
Fashion Studies (1056)	52.1902	0	1	1	0	0	1	0.0%
Communications, AC (1127)	24.0102	0	1	1	0	0	1	0.0%
Human Services (1199)	44.0000	0	1	1	0	0	1	0.0%
Human Services (1201)	44.0000	0	1	1	0	0	1	0.0%
Accountancy - Prof 3+1, DU (1318)	52.0302	0	1	1	0	0	1	0.0%
EKG Technician (1442)	51.0902	0	1	1	0	0	1	0.0%
Digital Media: Cinematography (1450)	50.0602	0	1	1	0	0	1	0.0%
Theatre (1483)	50.0501	0	1	1	0	0	1	0.0%

Program	CIP Code	FT	PT	Credit	Non Credit	HS	Total	% Total
Alternative Energy Engr Techn (1486)	15.0503	0	1	1	0	0	1	0.0%
Sust Res Des & Bldg Sci (1607)	15.0101	0	1	1	0	0	1	0.0%
Biological Lab Techniques (1608)	26.1201	0	1	1	0	0	1	0.0%
Japanese (1627)	16.0302	0	1	1	0	0	1	0.0%
Professional Fitness Leader (1703)	31.0507	0	1	1	0	0	1	0.0%
Mobile Application Developer (1712)	11.0202	0	1	1	0	0	1	0.0%
IoT Specialist (1713)	11.0901	0	1	1	0	0	1	0.0%
Patient Care Technician (1784)	51.3902	0	1	1	0	0	1	0.0%
Auto:Electric Drive/AltFuel (1792)	47.0604	1	0	1	0	0	1	0.0%
Auto:Brakes Suspension Syst (1793)	47.0604	0	1	1	0	0	1	0.0%
Auto:EnginePerf Drivability (1796)	47.0604	0	1	1	0	0	1	0.0%
Comm, Journalism & Language (1823)	9.0100	0	1	1	0	0	1	0.0%
Geography (1824)	45.0701	0	1	1	0	0	1	0.0%

Facilities Assessment

Lansing Community College Facilities Overview

Unless otherwise noted, all data in this section reflect Lansing Community College (LCC) fiscal year 2022- 2023.

LCC's current Facilities consist of 25 owned major buildings; Appendix A, including leased spaces, totals over 1.8 million square feet of floor space. The College's currently owned area comprises 1,528,912 square feet of gross building space. The estimated value of the College buildings exceeds $400 million. Founded in 1957, LCC celebrated its 65th year in 2022. Of the 25 College-owned buildings listed in **Table 3**, six are older than the college itself; these buildings were adapted for instructional or college support purposes when downtown Lansing was chosen as a site for the community college. The average age of all buildings is just over 60 years old, which presents an ongoing challenge for Facilities Department personnel to maintain adequately and to serve the College's instructional mission best. **Table 4** shows the status of handicapped accessibility and fire suppression systems in the College's buildings.

Facilities Assessment

LCC maintains a facilities assessment that is updated annually to consider new buildings and renovations as they are acquired or completed. The current facilities assessment in **Table 5** plans for major repair and replacement of building systems through 2028. Funding for this work is established within the plant fund with an annual transfer of $3,062,000. However, due to a global pandemic, anticipated reductions in state allocations, and a decrease in enrollment, the college reduced this amount to $2,800,000 for LCC's 2021-2022 fiscal year. As of fiscal year 2023-2024, this budget has been increased to $3,400,000.

LCC regularly uses a combination of outside maintenance firms and internal skilled trade staff to maintain and repair major College building systems. In-house staff perform regular inspections and repairs following a formal preventive maintenance program.

Roof and Building Envelope

One of the objectives of the facilities assessment was the development of a roof condition database through visual inspection of all roofs. Infrared structure scanning is performed to identify areas where moisture may be present in the insulation. Assessments have been performed on wall, door, and window systems. This information is used to plan the replacement of sealants, roofing, and exterior envelope systems to improve occupants' energy efficiency and indoor thermal comfort and mitigate moisture and air infiltration.

Architectural

The type and general condition (excellent, good, fair, poor, and substandard) of each room's floor coverings, walls, ceilings, doors, and window coverings have been surveyed. Annual campus replacement projects are established to replace worn and damaged finishes inside buildings periodically.

Electrical, Mechanical, Plumbing (MEP)

The MEP systems assessment provides replacement schedules for the college's infrastructure. Electrical substations in the College's older facilities are being systematically replaced. Similarly, chillers, pumps, and air-handling equipment are scheduled for replacement in accordance with the predictive life cycle for each system or piece of equipment.

Gannon Parking Ramp

The new Gannon Parking Ramp opened in August 2022 on the same site as the old Ramp that was demolished in 2021. The five-level ramp has 1,776 parking spaces, providing more than 800 additional parking spaces than the previous ramp. The new ramp offers parking for students, employees, Conference Services guests, and visitors.

Utilities

The highest-cost utility used by the college in the fiscal year 2022-2023 was electric, followed by steam, for the downtown campus. Steam is a bi-product from the local Board of Water and Light resulting from electricity generation at their power plants. Water and sewage are the next largest utilities used by the College. Water and sewage costs per year are higher due to higher sewer rates. Natural Gas is the College's least-used utility. Although utility costs have increased from year to year, utility conservation efforts have been incorporated throughout the campus. Utility cost for fiscal year 2020-2021 was reduced due to multiple unoccupied buildings due to the pandemic. Below is a table representing the final utility cost for fiscal year 2022-2023.

Electric	$ 1,885,268
Steam	$ 787,826
Water/Sewage	$ 289,417
Gas	$ 196,452
FY 2022-2023 Total Utility Cost	$ 3,158,963

Campus-wide Energy Plan

This section describes LCC's enterprise-wide energy plan. LCC considers its impact on energy usage, carbon footprint, and sustainable energy and resource management.

LCC regularly conducts energy audits by monitoring and measuring energy consumption on a building-by-building basis through the Siemens building automation system. Temperature and airflow set points are adjusted to optimize system efficiencies and indoor thermal comfort. General energy audits are performed annually by Facilities staff to review trend data on energy usage over the past two or three years. Building systems are also audited to confirm excessive maintenance or performance deficiencies so adjustments, repairs, or equipment replacement can be implemented. Fluorescent or incandescent lighting is being replaced with high-efficiency LED lighting. Multi-stack chillers were replaced with new energy-efficient centrifugal chillers. Motion sensors were installed for lighting control. New energy-efficient mechanical equipment was installed to improve indoor air quality. Water-saving devices were installed on plumbing fixtures. Siemens provides LCC with an annual report reflecting energy cost savings based on utility consumption.

LCC plans to continue upgrading and replacing antiquated architectural building envelope systems and mechanical and electrical equipment as part of the ongoing facilities assessment program. Future projects are an outcome of past energy audits and preventive maintenance. By incorporating sustainable design and construction practices, LCC endeavors to construct new facilities and renovations that meet LEED silver standards. As a national leader in alternative energy curricula, LCC is integrating sustainability into the educational experience and college operations.

LIFE SAFETY SYSTEMS

Fire Alarm and Public Address System

The College's fire alarm system has audio horn strobes that produce public address messages. These systems are maintained and serviced by the Facilities Department. LCC's Police Department Dispatch team regularly checks these systems to ensure they work. It recommends upgrading the systems to keep them current with NFPA (National Fire Protection Association) guidelines on notification and evacuation. As new buildings are added, or existing buildings are remodeled, these systems are examined to ensure they are all compatible and have additional capacity built into them for the future.

AED (Automated External Defibrillator) AEDs are portable electronic devices that automatically diagnose and correct potentially life-threatening cardiac arrhythmias. AEDs can treat victims through the application of a controlled electric shock. The College has approximately 60 AEDs across the Downtown, West, East, Mason Aviation Center, and Livingston Center campuses. Maintenance and placement of these devices is the

responsibility of the Facilities Department. As new buildings are added or remodeled, additional units are added based on best practices established by the American Heart Association. Funding was provided during the 2021-2022 fiscal year, allowing the purchase of 60 replacement AEDs and 6 AED training units.

Radio Frequency Amplification for Campus Buildings

Many of the College's buildings are constructed of concrete and steel. The windows have been specially made for energy conservation with metal laminate. While this type of construction is very durable, it can also block radio transmissions from inside or outside the structures. During emergencies, such as fire alarms, bomb threats, and tornado warnings, it is critical that LCC's Police, Emergency Management, and Facilities and outside emergency agencies, such as Lansing Police and Lansing Fire Department, have good, reliable communication. Radiofrequency amplification is a series of antennas connected to a signal amplification system. In this way, emergency agencies will have reliable communications throughout the College's buildings in the event of an emergency. Any new building construction or substantial remodeling will incorporate radio frequency amplification in design and construction.

Card Access System

To improve the physical safety on LCC campuses, all exterior doors in campus-owned buildings, as well as LCC East (leased property), have been upgraded with card access. As of March 2023, card access is required to access nearly all LCC facilities. In addition, during a campus crisis, these doors can be remotely secured with the push of a button.

Future projects will include retrofitting interior doors that are to areas that contain (1) expensive equipment, (2) dangerous equipment, or (3) confidential materials. Areas for Information Technology (IT) equipment, chemical storage, or personal record storage typically require card access.

General Classroom Utilization

Throughout the week, the College has 200 general-use classrooms available. The following tables represent classroom utilization by building, semester, and day of the week for both Fall and Spring Semesters. The following tables illustrate the hours considered available for scheduling.

LANSING COMMUNITY COLLEGE
CLASSROOM SPACE UTILIZATION: FALL SEMESTER 08/18/2022 - 12/12/2022

Building	PEAK (10am-3pm)	OFF PEAK (8am-10am)	OFF PEAK (3pm-5pm)	EVENING (5pm-10pm)	WEEKEND
ARTS & SCIENCES	35.23%	22.46%	20.25%	11.82%	0.00%
ACADEMIC & OFFICE FACILITY	0.00%	0.00%	0.00%	0.00%	0.00%
DART AUDITORIUM	0.00%	0.00%	0.00%	0.00%	0.00%
EAST CAMPUS	17.15%	5.79%	15.71%	9.45%	0.00%
ELCC	15.54%	19.28%	9.34%	0.00%	0.00%
GANNON	14.56%	7.06%	9.04%	8.50%	1.98%
HEALTH & HUMAN SERVICE	31.73%	28.98%	8.51%	10.89%	0.00%
LIVINGSTON CENTER	13.62%	9.15%	2.19%	1.94%	0.00%
MACKINAW	2.63%	3.09%	0.00%	0.00%	0.00%
MASON AVIATION	38.70%	45.83%	47.44%	38.70%	0.00%
TECHNOLOGY & LEARNING CENTER	6.81%	2.01%	10.24%	11.83%	0.00%
UNIVERSITY CENTER	0.00%	0.00%	0.00%	0.00%	0.00%
WEST CAMPUS	12.88%	14.18%	7.63%	11.51%	2.03%
ONLINE CLASSES	93.95%	86.45%	86.34%	71.53%	30.78%

*Weekend hours are Saturday 8am-10pm except EC, LIVCEN, MSNAVN, & WC, whose hours are 8am-5pm

LANSING COMMUNITY COLLEGE
CLASSROOM SPACE UTILIZATION: SPRING SEMESTER 01/09/2023 - 05/08/2023

Building	PEAK (10am-3pm)	OFF PEAK (8am-10am)	OFF PEAK (3pm-5pm)	EVENING (5pm-10pm)	WEEKEND
ARTS & SCIENCES	35.14%	18.86%	25.04%	10.54%	0.00%
ACADEMIC & OFFICE FACILITY	0.00%	0.00%	0.00%	0.00%	0.00%
DART AUDITORIUM	0.00%	0.00%	0.00%	0.00%	0.00%
EAST CAMPUS	11.82%	4.14%	7.21%	11.24%	0.00%
ELCC	0.00%	0.00%	0.00%	0.00%	0.00%
GANNON	12.09%	3.73%	7.86%	7.33%	0.35%
HEALTH & HUMAN SERVICE	29.30%	29.62%	8.20%	10.05%	0.66%
LIVINGSTON CENTER	9.05%	4.07%	2.94%	1.68%	0.00%
MACKINAW	4.48%	4.36%	0.31%	0.00%	0.00%
MASON AVIATION	36.16%	41.30%	41.30%	36.16%	0.00%
TECHNOLOGY & LEARNING CENTER	8.85%	4.12%	7.66%	8.52%	0.00%
UNIVERSITY CENTER	1.59%	0.00%	0.00%	0.00%	0.00%
WEST CAMPUS	16.20%	17.11%	12.65%	16.15%	1.03%
ONLINE CLASSES	88.66%	52.13%	78.59%	67.87%	32.67%

*Weekend hours are Saturday 8am-10pm except EC, LIVCEN, MSNAVN, & WC, whose hours are 8am-5pm

Adequacy of Existing Facilities

The average age of LCC facilities is just over 60 years. It is critical for the college to continuously upgrade facilities to incorporate new educational technologies, supporting infrastructure, and more energy-efficient mechanical, electrical, and plumbing systems. Instructional spaces must be flexible and adaptable to meet emerging teaching pedagogies and curricula trends. The aging infrastructure needs updating to provide operational efficiencies while creating indoor learning environments that improve student learning outcomes.

Computer Labs and Classrooms

Lansing Community College provides student computer labs at multiple campuses during regular business operations. Our West Campus has 31 student workstations available at the computer lab. The college also has a computer lab in the TLC building, Mason Aviation Center, East campus, and Livingston County Center Campus. The college has made resources available for students who do not have access to the necessary technology to complete their remote classwork.

The computer availability at each of the campus/extension centers is shown in the table below.

Campus/Extension Center	Computer Classrooms	Computer on Wheels (COWS) & Dry Docks
Downtown Campus	37	52
West Campus	21	5
Mason Aviation Center	1	1
East Campus	3	5
Livingston County Center	2	3

The College is unable to add computer classrooms without losing general classroom space. To deal with this space confinement, the college has purchased furniture for two computer classrooms, allowing the computer equipment to be concealed in the table to create a lecture environment. The College is working toward having this flexibility in all computer classrooms and increasing the number of rooms with computers. Still, the cost limits how much can be accomplished each year. In addition, the college has created several hyflex classrooms where students can attend live classes in person or from a remote location.

Appendix D provides the Information Technology Strategic Plan/Master Plan.

BUILDING DESCRIPTIONS

AOF houses various offices within the Administrative Services Division and the Performing Arts Department's Scene and Costume Shops. The Wood Shop is shared by our Facilities and Performing Arts Departments. There is also general classroom space for swing space and a large amount of warehousing in this facility.

The Paula D. Cunningham Administration Building houses executive offices and the Board of Trustees Meeting room.

Aviation Center – LCC's Flight Training Program has been discontinued; the Aviation-related programs are housed at the Mason Aviation Center.

Dazy Flight Center LCC's Flight Training Program has been discontinued; the Aviation-related Programs are housed at the Mason Aviation Center.

T Hanger and South Hanger LCC's Flight Training Program has been discontinued; the Aviation Programs will be housed at the Mason Aviation Center beginning in Fall 2013.

Arts & Sciences Building houses many of the Arts & Sciences Division's offices, the planetarium, and science labs. Also housed in this building are the Cesar E. Chavez Learning Center and Equity Center. All divisions also use General Classrooms. Major renovations using Capital Outlay funding were completed in August 2013.

Huron Building houses union offices and the Veterans Resource Center.

Dart Auditorium is the primary auditorium facility on the downtown campus. It also houses several Performing Arts practice rooms and classrooms. Between 2021 and 2023, using a combination of Higher Education Relief Funds and Institutional Plant Funds, the college was able to renovate the facility by upgrading the HVAC equipment, lighting, and seating and giving the auditorium and staging area a fresh new look.

Early Learning Children's Community – This facility is temporarily leased to an external company.

Gannon Building renovations completed in 2014 created a welcoming and inspiring student space. Improvements include the construction of a faceted glass wall that runs along the building's eastern face, and the Commons food court, which provides accessible, fresh food vending grab-and-go options during the building operational hours. In addition, the building is an easily accessible, one-stop student services center (StarZone) for admissions, enrollment, registration, academic advising, financial aid, counseling, and the transfer center. The Academic Success Coach lounge allows students to meet with success coaches, attend skill-building workshops, and participate in other group activities. This facility also contains several specialized classrooms, the college's

Gymnasium, Fitness Center, Weight Room, and Dance Classrooms, and one set of locker rooms to accommodate all divisions' fitness areas and general classrooms. This is also the location of the college's Receiving and Mail Facility and LCC Police Department. In 2022-2023, using a combination of Higher Education Relief Funds and Institutional Plant Fund, the college was able to upgrade the HVAC equipment.

Human Health and Services Building houses all the offices, specialized classrooms, and labs related to the Child Development and Early Education, Dental Hygiene, Diagnostic Medical Sonography, Nursing Careers, Community Health Services, Medical Assistant, Emergency Medical Services, Paramedic, Surgical Technology, Radiologic Technology, Neurodiagnostic Technology, and Massage Therapy Programs and general classrooms used by all divisions.

Herrmann House was remodeled in 2012 to provide a residence for LCC's current and future presidents. The remodel ensured historical preservation while providing modern conveniences.

University Center is currently vacant but will be temporarily leased to an external company beginning in October 2023

Rogers-Carrier House is a historical building that the College maintains.

Mackinaw Building houses the High School Diploma Completion Program and several general classrooms for LCC Programs.

Abel B. Sykes Technology Learning Center houses the primary Computer Lab, Library, Learning Commons, classroom, Center for Teaching Excellence, eLearning, and a TV station. The Information Technology Services Division's office and the primary college data center are also located within this facility.

West Campus houses the Technical Careers Division offices along with most of their programs. This includes Auto Center, Construction/Residential Building Lab, Machine Shop, Welding Lab, Manufacturing Engineering Technologies, Electrical, HVAC, IBEW, Civil Technology, Geographic Information Systems, Alternative Energy, Computer Information Technology, Criminal Justice, Police Academy, Fire Science/Academy, Architecture, Heating, Ventilating and Air Conditioning, Center for Manufacturing Excellence – Robotics, and Paralegal Programs. West Campus also houses the main offices of the Community Education and Workforce Development (CEWD) division, including the Business and Community Institute, Continuing Education, and Centralized Services. Additionally, most of the Eaton Regional Educational Service Agency classrooms, fitness center, locker rooms, large conference center, student services, and cafeteria are also housed at this location. In 2022-2023, using Higher Education Relief Funds and Institutional Plant Fund, the college upgraded the HVAC equipment and partially replaced the roof.

Washington Court Place houses the Financial Services Division, Purchasing, Registrar and

Records, Educational Resource Development, External Affairs & Development, K-12 Operations, LCC Foundation, Small Business Development Center, the Center for Data Science, and Risk Management & Legal Services and Compliance Offices.

Mason Aviation Center has classrooms, a computer lab, and separate bay workstations. All students learn about industry-current equipment and technology and work hands-on with large and small planes, turbine and jet engines, traditional aircraft construction, and advanced composite materials—designated Delta Airline Training Facility.

505 N. Capitol Avenue Building – Currently vacated and prepared for renovation.

COLLEGE LAND

The college occupies 32 acres in downtown Lansing and leases additional acreage at the Capital City Airport. The West Campus in Delta Township, Michigan, comprises 64 acres. This parcel is convenient to I-496 and is the site of the M-TEC® and Technical Training Center. At 64 acres, the site also allows for future program expansion if needed.

College Indebtedness for Current Buildings

As of June 30, 2023, the College's outstanding indebtedness is as follows:

Bonds Sale		June 30, 2023	Bonds Paid Off
2015	$	2,475,000	2026
2016	$	2,590,000	2026
2017	$	25,735,000	2037
2019	$	36,075,000	2049
2022	$	17,825,000	2032
Total	$	84,700,000	

The College has an excellent bond rating, with rates of AA (S & P) and Aa2 (Moody's) as of the most recent rating.

Table 3
Lansing Community College
Inventory of Owned and Leased College Facilities

Owned Facilities

Facility Name	Address	Year Built	Approx. Gross Sq. Ft.	Age	# of General Classrooms	# of "other" academic-related rooms	Total Classrooms
505 N. Capitol Avenue	505 N. Capitol Ave	1966	19,551	57	0	0	0
515 N. Capitol Avenue	515 N. Capitol Ave	1887	2,957	136	0	0	0
Abel B. Sykes Technology Learning Ctr.	400 N. Capitol Ave	1998	156,657	25	3	4	7
Academic & Office Facility	315 N. Grand Ave	1924	60,668	99	4	2	6
Arts & Sciences	419 N. Washington Sq.	1968	198,296	55	16	13	29
Aviation Center	3428 W. Hanger Dr.	1962	18,621	61	0	0	0
Aviation Center-Avionics (Modular Unit)	3428 W. Hanger Dr.	N/A	1,970		0	0	0
Huron Building	333 N. Washington Sq.	1976	10,028	47	0	0	0
Dart Auditorium	500 N. Capitol Ave.	1980	37,515	43	3	6	9
Dazy Flight Center	3410 W. Hanger Dr.	1962	6,445	61	0	0	0
Early Learning Children's Community	601 N. Washington Sq.	1950	11,617	73	0	0	0
Gannon Building	422 N. Washington Sq.	1975/76	305,208	48	31	54	83
Gannon Building	411 N. Grand Ave	1975	22,438	48	0	0	0
Health & Human Services Building	515 N. Washington Sq.	2005	141,992	18	12	32	44
Hermann House	520 N. Capitol Ave	1893	9,911	130	0	0	0
LCC West – MTEC	5708 Cornerstone Dr.	2004	86,335	19	12	59	71
LCC West – Technical Training Center	5708 Cornerstone Dr.	2004	216,201	19	0	0	0
Mackinaw Building	430 N. Capitol Ave	1962	30,117	61	12	2	14
Mason Aviation Center	661 S. Aviation Drive, Mason	1997	20,000	26	2	0	2
Mason Jewett Field Hangars (2)	649 S. Aviation Drive, Mason	N/A	15,500		0	0	0
Paula D. Cunningham Administration Bldg	610 N. Capitol Ave	2005	34,670	18	0	0	0
Rogers-Carrier House (Inc. addition)	528 N. Capitol Ave	1891	4,813	132	0	0	0
South Hanger	3408 W. Hanger Dr.	1975	5,064	48	0	0	0
T-Hanger	3460 W. Hanger Dr.	N/A	7,360		0	0	0
University Center	210 W. Shiawassee St.	1906/2007	40,478	117	0	0	0
Washington Court Place	309 N. Washington Sq.	1973	80,000	50	0	0	0
Totals/Average Age for All Buildings			1,544,412	60.48	95	172	265
New Gannon Parking Ramp	301 N. Grand Ave	2022	538,056	1			

Table 3 (Continued)
Lansing Community College
Inventory of Owned and Leased College Facilities

Leased Facilities

Facility Name	Address	Approx. Gross Sq. Ft.	# of General Classrooms	# of "other" academic-related rooms	Total Classrooms
East Campus	2827 Eyde Parkway East Lansing MI 48823	20,000	13	2	15
Livingston Campus	402 Wright Road Howell, MI 48843	27,500	10	7	17
Totals		**47,500**	23	9	32

Table 4

Status of Fire Suppression/Accessibility Systems

<u>**OWNED FACILITIES**</u>

Facility Name	Address	Year Built	Fire Suppression System	Handicapped Accessible
505 N. Capitol Avenue	505 N. Capitol Ave.	1966	Yes	Partial
AOF Building	315 N. Grand Ave.	1924	Partial	Yes
Paula D. Cunningham Administration Building	610 N. Capitol Ave	2005	Yes	Yes
Aviation Center	3428 W. Hanger Dr.	1962	No	Yes
Dazy Flight Center	3410 W. Hanger Dr.	1962	No	No
Aviation Center-Avionics (Modular Unit)	3428 W. Hanger Dr.	N/A	No	Yes
T-Hangars	3460 W. Hanger Dr.	N/A	No	Yes
Hangar South	3408 W. Hanger Dr.	1975	No	No
Arts & Sciences Building	419 N. Washington Sq.	1968	Yes	Yes
Huron Building	333 N. Washington Sq.	1976	No	Yes
Dart Auditorium	500 N. Capitol Ave.	1980	Yes	Yes
Gannon Building	422 N. Washington Sq.	1975/76	Yes	Yes
Gannon Building	411 N. Grand Ave.	1975	Yes	Partial
Health and Human Services	515 N. Washington Sq.	2005	Yes	Yes
Herrmann Conference Center	520 N. Capitol Ave.	1893	No	Partial
Early Learning Children's Community	601 N. Washington Sq.	1950	Yes	Yes
Rogers-Carrier House (addition)	528 N. Capitol Ave.	1897	No	Partial
Mackinaw Building	530 N. Capitol Ave.	1962	Yes	Yes
Abel B. Sykes Technology Learning Center	400 N. Capitol Ave.	1998	Yes	Yes
Technical Training Center - West Campus	5708 Cornerstone Dr.	2004	Yes	Yes
West Campus - MTEC	5708 Cornerstone Dr.	2004	Yes	Yes
309 Washington Court Place	309 N. Washington St.	1973	Yes	Yes
University Center	210 W. Shiawassee St.	1906/2007	Yes	Yes
Mason-Jewett Airport	661 Aviation Drive, Mason	1997	Partial	Yes
515 N. Capitol Avenue	515 N. Capitol Avenue	1899	No	No

Table 5

Summary of Facilities Assessment Data – Fall 2022

Building	Facility Category	Yr #1 FY 2023 $4,250,000	Yr #2 FY 2024 $3,138,000	Yr #3 FY 2025 $3,397,325	Yr #4 FY 2026 $3,033,000	Yr #5 FY 2027 $3,458,075	All Yrs GT $17,276,400
AOF Building	Envelope	$0	$50,000	$62,500	$0	$0	**$112,500**
	Mechanical	$95,000	$85,000	$76,500	$85,000	$0	**$341,500**
	Electrical	$25,000	$50,000	$52,500	$10,000	$0	**$137,500**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$25,000	$37,500	$20,000	$0	**$82,500**
AOF Total		**$120,000**	**$210,000**	**$229,000**	**$115,000**	**$0**	**$674,000**
Administration	Envelope	$0	$5,000	$6,250	$0	$0	**$11,250**
	Mechanical	$100,000	$10,000	$9,000	$5,000	$4,500	**$128,500**
	Electrical	$50,000	$5,000	$5,250	$0	$0	**$60,250**
	Architectural	$5,000	$10,000	$11,500	$10,000	$11,500	**$48,000**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$50,000	$75,000	$0	$0	**$125,000**
ADM Total		**$155,000**	**$80,000**	**$107,000**	**$15,000**	**$16,000**	**$373,000**
Arts & Science	Envelope	$50,000	$25,000	$31,250	$0	$0	**$106,250**
	Mechanical	$200,000	$100,000	$90,000	$30,000	$82,500	**$502,500**
	Electrical	$75,000	$75,000	$78,750	$20,000	$21,000	**$269,750**
	Architectural	$3,000	$0	$0	$0	$0	**$3,000**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$10,000	$50,000	$75,000	$50,000	$137,500	**$322,500**
A&S Total		**$338,000**	**$250,000**	**$275,000**	**$100,000**	**$241,000**	**$1,204,000**
Avionics Center	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
Avionics Total		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**

Table 5 (Continued)

Summary of Facilities Assessment Data – Fall 2023

DART Auditorium	Envelope	$0	$10,000	$12,500	$10,000	$12,500	**$45,000**
	Mechanical	$25,000	$200,000	$180,000	$100,000	$120,000	**$625,000**
	Electrical	$5,000	$100,000	$105,000	$100,000	$95,000	**$405,000**
	Architectural	$3,000	$0	$0	$0	$0	**$3,000**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$7,000	$15,000	$22,500	$0	$0	**$44,500**
DART Total		**$40,000**	**$325,000**	**$320,000**	**$210,000**	**$227,500**	**$1,122,500**
Dazy Hanger	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
Dazy Hanger Total		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Early LCC	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$3,000	$3,000	$3,150	$3,000	$3,150	**$15,300**
	Architectural	$3,000	$3,000	$3,450	$3,000	$3,450	**$15,900**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
Early LCC		**$6,000**	**$6,000**	**$6,600**	**$6,000**	**$6,600**	**$31,200**
East Campus	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$3,000	$3,000	$3,150	$3,000	$3,150	**$15,300**
	Architectural	$10,000	$10,000	$10,000	$10,000	$11,500	**$51,500**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
East Campus Total		**$13,000**	**$13,000**	**$13,150**	**$13,000**	**$14,650**	**$66,800**
Gannon Building	Envelope	$50,000	$100,000	$125,000	$100,000	$120,000	**$495,000**
	Mechanical	$200,000	$225,000	$202,500	$225,000	$168,750	**$1,021,250**
	Electrical	$175,000	$80,000	$84,000	$80,000	$84,000	**$503,000**
	Architectural	$50,000	$150,000	$172,500	$150,000	$165,000	**$687,500**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$50,000	$100,000	$150,000	$100,000	$110,000	**$510,000**
Gannon Total		**$525,000**	**$655,000**	**$734,000**	**$655,000**	**$647,750**	**$3,216,750**
Huron (Continental)	Envelope	$0				$0	**$0**
	Mechanical	$10,000	$15,000	$13,500	$15,000	$0	**$53,500**
	Electrical	$10,000	$0	$0	$0	$0	**$10,000**
	Architectural	$0	$50,000	$57,500	$50,000	$0	**$157,500**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$5,000	$7,500	$5,000	$0	**$17,500**
Huron Total		**$20,000**	**$70,000**	**$78,500**	**$70,000**	**$0**	**$238,500**

Table 5 (Continued)

Summary of Facilities Assessment Data – Fall 2023

Health & Human Serv	Envelope	$65,000	$65,000	$81,250	$0	$0	**$211,250**
	Mechanical	$100,000	$200,000	$180,000	$15,000	$15,000	**$510,000**
	Electrical	$150,000	$5,000	$5,250	$10,000	$10,500	**$180,750**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$10,000	$10,000	$9,000	$0	$0	**$29,000**
	Roof Repair/Replace	$0	$0	$0	$225,000	$337,500	**$562,500**
HHS Total		**$325,000**	**$280,000**	**$275,500**	**$250,000**	**$363,000**	**$1,493,500**
Herrmann House	Envelope	$1,000	$1,500	$1,875	$1,500	$1,875	**$7,750**
	Mechanical	$60,000	$2,000	$1,800	$2,000	$1,800	**$67,600**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$2,500	$10,000	$11,500	$10,000	$11,500	**$45,500**
	Site Repairs	$500	$2,500	$2,250	$2,500	$2,250	**$10,000**
	Roof Repair/Replace	$0	$500	$750	$500	$750	**$2,500**
HH Total		**$64,000**	**$16,500**	**$18,175**	**$16,500**	**$18,175**	**$133,350**
Mackinaw Building	Envelope	$45,000	$10,000	$12,500	$10,000	$12,500	**$90,000**
	Mechanical	$10,000	$10,000	$9,000	$5,000	$4,500	**$38,500**
	Electrical	$5,000	$20,000	$21,000	$20,000	$21,000	**$87,000**
	Architectural	$0	$10,000	$11,500	$10,000	$11,500	**$43,000**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$65,000	$10,000	$15,000	$100,000	$150,000	**$340,000**
Mackinaw Total		**$125,000**	**$60,000**	**$69,000**	**$145,000**	**$199,500**	**$598,500**
Mason Jewett Field	Envelope	$75,000	$40,000	$50,000	$40,000	$42,000	**$247,000**
	Mechanical	$25,000	$55,000	$49,500	$55,000	$49,500	**$234,000**
	Electrical	$25,000	$10,000	$10,500	$0	$0	**$45,500**
	Architectural	$5,000	$10,000	$11,500	$10,000	$11,500	**$48,000**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$10,000	$15,000	$150,000	$187,500	**$362,500**
Mason Jewett Field		**$130,000**	**$125,000**	**$136,500**	**$255,000**	**$290,500**	**$937,000**
Livingston Campus	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$3,000	$3,000	$3,150	$3,000	$3,150	**$15,300**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
Livingston Total		**$3,000**	**$3,000**	**$3,150**	**$3,000**	**$3,150**	**$15,300**
Parking Structure	Maintenance	$75,000	$120,000	$150,000	$175,000	$192,500	**$712,500**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
Parking Struct Total		**$75,000**	**$120,000**	**$150,000**	**$175,000**	**$192,500**	**$712,500**

Table 5 (Continued)

Summary of Facilities Assessment Data – Fall 2023

Rogers-Carrier House	Envelope	$10,000	$0	$0	$0	$18,750	**$28,750**
	Mechanical	$125,000	$2,000	$2,000	$2,000	$0	**$131,000**
	Electrical	$60,000	$2,000	$2,000	$2,000	$0	**$66,000**
	Architectural	$3,500	$3,000	$3,000	$3,000	$17,250	**$29,750**
	Site Repairs	$5,000	$5,000	$5,000	$5,000	$4,500	**$24,500**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
RCH Total		**$203,500**	**$12,000**	**$12,000**	**$12,000**	**$40,500**	**$280,000**
Site Improvements	All	$150,000	$150,000	$150,000	$150,000	$150,000	**$750,000**
Site Improv Total		**$150,000**	**$150,000**	**$150,000**	**$150,000**	**$150,000**	**$750,000**
South Hanger	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
South Hanger Tot		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Sykes Tech Center	Envelope	$10,000	$100,000	$125,000	$100,000	$125,000	**$460,000**
	Mechanical	$300,000	$65,000	$58,500	$65,000	$113,750	**$602,250**
	Electrical	$200,000	$50,000	$52,500	$50,000	$80,000	**$432,500**
	Architectural	$45,000	$0	$0	$0	$0	**$45,000**
	Site Repairs	$5,000	$0	$0	$0	$0	**$5,000**
	Roof Repair/Replace	$85,000	$10,000	$15,000	$0	$0	**$110,000**
TLC Total		**$645,000**	**$225,000**	**$251,000**	**$215,000**	**$318,750**	**$1,654,750**
University Center	Envelope	$15,000	$15,000	$18,750	$0	$0	**$48,750**
	Mechanical	$20,000	$20,000	$18,000	$25,000	$22,500	**$105,500**
	Electrical	$10,000	$10,000	$10,500	$25,000	$26,250	**$81,750**
	Architectural	$5,000	$5,000	$5,750	$20,000	$23,000	**$58,750**
	Site Repairs	$5,000	$5,000	$4,500	$0	$0	**$14,500**
	Roof Repair/Replace	$0	$25,000	$37,500	$150,000	$225,000	**$437,500**
UC Total		**$55,000**	**$80,000**	**$95,000**	**$220,000**	**$296,750**	**$746,750**
Washington Court Pl	Envelope	$10,000	$5,000	$6,250	$5,000	$6,250	**$32,500**
	Mechanical	$100,000	$50,000	$45,000	$15,000	$13,500	**$223,500**
	Electrical	$250,000	$0	$0	$0	$0	**$250,000**
	Architectural	$100,000	$0	$0	$0	$0	**$100,000**
	Site Repairs	$0	$5,000	$4,500	$5,000	$4,500	**$19,000**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
WCP Total		**$460,000**	**$60,000**	**$55,750**	**$25,000**	**$24,250**	**$625,000**

Table 5 (Continued)

Summary of Facilities Assessment Data – Fall 2023

West Campus	Envelope	$25,000	$30,000	$37,500	$30,000	$33,000	**$155,500**
	Mechanical	$500,000	$250,000	$225,000	$170,000	$153,000	**$1,298,000**
	Electrical	$150,000	$20,000	$21,000	$20,000	$21,000	**$232,000**
	Architectural	$5,000	$0	$0	$0	$0	**$5,000**
	Site Repairs	$10,000	$15,000	$13,500	$5,000	$4,500	**$48,000**
	Roof Repair/Replace	$100,000	$75,000	$112,500	$150,000	$187,500	**$625,000**
West Campus Total		**$790,000**	**$390,000**	**$409,500**	**$375,000**	**$399,000**	**$2,363,500**
505 Capitol Ave	Envelope	$0	$0	$0	$0	$0	**$0**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$0	$0	$0	$0	$0	**$0**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
505 Cap Ave Total		**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
515 Capitol Ave	Envelope	$5,000	$5,000	$6,250	$5,000	$6,250	**$27,500**
	Mechanical	$0	$0	$0	$0	$0	**$0**
	Electrical	$0	$0	$0	$0	$0	**$0**
	Architectural	$0	$0	$0	$0	$0	**$0**
	Site Repairs	$2,500	$2,500	$2,250	$2,500	$2,250	**$12,000**
	Roof Repair/Replace	$0	$0	$0	$0	$0	**$0**
515 Cap Ave Total		**$7,500**	**$7,500**	**$8,500**	**$7,500**	**$8,500**	**$39,500**

Implementation Plan

Capital projects are necessary to transform the student experience into dynamic teaching, learning, and support environments, positioning LCC as a leader in community college education and maintaining campus facilities to avoid deferred maintenance costs and mitigate the likelihood of material operational disruptions.

In July 2023, LCC embarked on its next Campus Master Plan (CMP), with LCC partnering with Colliers Engineering & Design (previously Bergmann Architects, Engineers, & Planners) and JMZ Architects & Planners. The subsequent CMP will be developed in alignment with the Strategic Plan, Academic Master Plan, and Federal Agenda. Since it is crucial, developing the CMP has been identified as one of the 20 ongoing projects that comprise LCC's 2021-2024 Strategic Plan. The CMP is scheduled to be completed by June 2024.

FY2025 CAPITAL OUTLAY PROJECT REQUEST

505 N. Capitol Avenue: HHS Simulation and Veterans Resource Center
The 505 N. Capitol project will renovate a vacant facility owned by the college and transform what were formerly commercial offices into an academically vibrant building that includes adaptive, technology-rich classrooms designed to improve instructional content delivery and be flexible and responsive to changing student and industry needs.

Renovating LCC's 505 N. Capitol Avenue building to house a Health and Human Services (HHS) Simulation Center and the Office of Veterans and Military Affairs (OVMA), a Veterans Resource Center (VRC), will meet two pressing needs. First, the Simulation Center will expand HHS's ability to deliver high-quality, immersive learning experiences that simulate real work environments, improve patient care and safety, and advance equity within the rapidly changing healthcare industry. The Simulation Center will also increase professional collaboration opportunities for healthcare students by allowing students to communicate and consider each other's unique perspectives and better prepare program graduates to address the multiple factors that influence the health of individuals, families, and communities. The new location of OMVA's Veteran Resource Center (VCR) will greatly extend its ability to meet the academic, support, and networking needs of veterans, active military, and their families. Both HHS and the VCR have expressed the need to relocate to a larger facility for years.

The heart of the project will be to create a dedicated simulation center, which will greatly expand HHS's capacity to provide simulated learning experiences using manikins, standardized patients, and virtual reality modeling and simulation that enables students to interact with artificial three-dimensional (3-D) visual or other sensory environments. The renovated building will not only accommodate LCC students and programs, it will also be available to other postsecondary institutions such as the University of Michigan- Flint, with whom we are developing an ADN-BSN nursing partnership, community partners such as the Sparrow and

McLaren Health Systems, and other regional and statewide entities interested in using the facility. This capacity to provide learning opportunities across a large geographical region will help advance the nursing program's reputation as a high-quality, forward-thinking education provider.

The building will also include tutoring, study, and counseling rooms; office and meeting spaces; debrief rooms; student lounges; and other areas to support HHS and VRC student learning and community engagement.

Table 1 compares the current HHS simulation space with what could be available in a new HHS/VRC space. The expanded space would also allow Surgical Technology and other health career students to participate in simulation education. While there is a growing need to provide this training, there is no room in the current facility, underscoring that a new Simulation Center will be a meaningful investment for the college.

Table 1: Comparison of Proposed 505 N. Capitol Avenue and Current HHS Simulation Capacity

505 N. CAPITOL	Square feet	HHS BUILDING	Square feet
LOWER LEVEL - SIM		**Nursing**	
XR Suite	1,524	Control/debrief room	230
Control room	164	Patient room (sim or mannikin)	161
Storage room	185	Supplies, med cart, moulage	117
Fitting room	140	**EMS**	
Orientation room	226	Control room	228
Medical locked storage	1,551	Patient area	161
Laundry room	216		
GROUND LEVEL - VRC			
Lounge	1015		
Storage	1025		
3 offices	109 each		
Office consult	161		
2 tutors	115 each		
Computer lab	189		
505 GROUND LEVEL - SIM			
3 offices	108 each		
Shared office	146		
505 GROUND LEVEL - SHARED			
Pre-function market	Open space		
Reception	Open space		
Orientation/training/workshop	682		

Facility lounge	230		
Supplies	30		
505 UPPER LEVEL - SIM			
6 simulated patient sim rooms	130, 168,174, 202 (2), 214		
4 clinical sim rooms	120 (3), 94		
Nursing station	358		
OR/OB suite	497		
Moulage storage	78		
4 debrief rooms	98, 123, 173, 184		
Supply room	80		
Student lounge	166		
Standardized patient lounge	159		
Clinical control	284		

The building will also be occupied by LCC's Office of Veterans and Military Affairs (OVMA) Veteran Resource Center (VRC), whose current space is not adequate to meet veteran, active military, and family students' needs. The college has a long and distinguished history of training and supporting its men and women of the armed services, and creating an environment where they can receive specialized assistance and feel comfortable is an essential part of this project. Although there won't be a direct overlap between the Simulation Center and OVMA, both will benefit from a shared meeting space and potentially advantageous physical presence since the OVMA acts as a liaison between veteran/military students and LCC departments and programs.

In addition to significantly altering the 505 Capitol building's interior, exterior work will be needed to align this 1960s building with current construction requirements and best practices. The mechanical, electrical, plumbing, and glass/ glazing systems will be updated for energy efficiency. Insulation throughout the building will also be replaced to remove any asbestos-containing materials and improve energy efficiency. Building accessibility and compliance with ADA regulations will be addressed at all entrances.

PROJECTED CAPITAL PROJECTS

The following projects have been vetted by LCC's Space Management Review Team (SMRT) and approved by the President for design development in preparation to be submitted to the Board through the college's capital project request process. SMRT consists of the Provost, Senior V.P. of Business Operations, Associate Vice President of External Affairs & Development & K-12 Operations, Chief Financial Officer, Executive Director of Administrative Services, and Director of Facilities. The costs below represent rough estimates based on historical square foot costs for similar projects/facilities. Director Martz and his team will not have a refined cost estimate for each project until the College and the architectural and engineering (A&E) design teams have reached construction drawings, which is the last step before bidding a project.

Projected Projects 2024 - 2028

- 505 N. Capitol Avenue, Downtown Campus, HHS Simulation and Veterans Resource Center, Est. $14,000,000

- Arts & Science Building, Downtown Campus – Chiller Replacement, Est. $1,200,000

- Cybersecurity Center – West Campus: Sq.Ft. Est. $3,300,000

- Transfer Center – Gannon Building: Sq.Ft. Est. $3,800,000

- Washington Court Place Level 2 Renovation: Sq.Ft. Est. $1,500,000

- Capital Region International Airport Properties Demolition: Est. $1,500,000

Appendix A
Photos of
Campus Buildings

AOF - Academic Office Facility

ADM - Administration Building

A&S - Arts and Sciences Building

DRT - Dart Auditorium

ELCC – Early Learning Children's Community

GB - Gannon Building

Gannon Parking Ramp

Gannon Parking Ramp – Schoolcraft Entrance

HHS - Health and Human Services Building

HH-Herrmann House/Shigematsu Memorial Garden

HB – Huron Building

MB – Mackinaw Building

MAC – Mason Aviation Center

RCH - Rogers Carrier House

TLC - Abel B. Sykes, Jr. Technology Learning Center

UC - University Center

WCP – Washington Court Place

WC - West Campus

505 N. Capitol Avenue

515 N. Capitol Avenue

Amphitheater

Appendix B

Information Technology Strategic Plan/ Master Plan

Information Technology Strategic Plan/Master Plan

Updated July 2023

The Lansing Community College Board of Trustees adopted the College's Strategic Plan with the following five areas of focus:

1. Competitiveness and Innovation
2. Engaged Learning and Student Success
3. Community Engagement
4. Diversity, Equity and Inclusion
5. Leadership, Culture and Communication
6. Resource Management and Fiscal Responsibility

Achievement of these goals requires the availability of a robust and reliable information technology foundation to support the variety of initiatives underway and planned for the future. The Information Technology Services Division is committed to providing and supporting this foundation and to working collaboratively with the College community to create a technology environment supportive of the College's teaching and learning mission.

Infrastructure

- Reliable, available and ubiquitous wired and wireless network/internet access
- Bandwidth to support convergence of voice, data and video across the network
- Capability and plans for facility disaster recovery
- Minimize energy and hardware costs through server and desktop virtualization technologies
- Define and provide support for mobile devices and BYOD (Bring Your Own Device)
- Eliminate or reduce barriers that exist for student access to technology
- Replace/upgrade information technology and media equipment per a defined lifecycle
- Manage software licenses both on premise and cloud-based

Classroom Technology

- Through collaboration with faculty and students, define and maintain standard classroom configurations
- Collaborate with faculty to identify and implement innovative technologies that support the teaching and learning mission of the College through a technology "sandbox" facility
- Implement and support lecture capture capabilities to enhance the teaching and learning mission of the College

Security

- Through collaboration with staff and students, implement cost effective solutions that establish a defensible, risk-based security environment that complies with Board Policies, laws, regulations and other agency requirements
- Provide early identification and mitigation of activity, weaknesses, vulnerabilities and threats that pose a risk to the College
- Support appropriate use of diverse desktop and mobile device computing technologies through security awareness, policies and controls
- Employ strong identity management capabilities
- Conduct ongoing security and risk assessments
- Protect confidential data at rest, in motion and at destruction
- Maintain an effective information security awareness program

Enterprise Applications

- Support the College's ERP system and apply upgrades to stay current
- Investigate and implement unused features and functions within the Banner ERP System to improve the application's effectiveness in supporting College operations
- Implement secure interfaces and integration with other applications
- Provide appropriate support of all other enterprise class applications
- Develop and implement standards and processes to ensure all systems, forms, websites, and instructional materials are accessible to all students and employees

Support Services

- Provide instruction and support for the use of classroom technology
- Provide audio/visual/production support for the College's media technologies and other campus events
- Provide high quality/responsive Help Desk services and an expanded self service online Knowledge Base
- Maintain and provide support for compliance with the College's approved Records Retention and Disposal Schedules

Governance

- Partner and work closely with the College's Project Management Review Team to establish project priorities and to effectively allocate resources
- Provide consulting services related to hardware and software purchases and vendor provided solutions

- Develop clear policies, standards and guidelines related to information technology use
- Encourage professional growth and skill development of the IT staff
- Fund IT through wise stewardship, vendor management, process redesign and planned cyclical replacement processes
- Seek and pursue alternative sourcing opportunities that maintain quality and reduce cost of delivery
- Move toward campus-wide software solutions to lower costs, increase ability to manage data and connections securely, increase collaboration, and increase consistency in services
- Utilizing the College's service/project management software solution:
    - Develop and implement a project management methodology that supports effective communication, tracking, prioritization, and completion of information technology projects
    - Implement a service management solution that supports continuous improvement in the areas of request, incident, problem and change management
- Partner with College divisions in technology adoption and digital transformation of existing processes.

Information Technology Current and Planned Initiatives

Information Security Initiatives

The following information security initiatives have been identified and prioritized for implementation.

- Multifactor authentication expansion
- Migration to Managed SIEM and MDR
- External hosting for lcc.edu website
- External authentication for hosted applications
- Increased monitoring and detection tools for infrastructure
- Additional DDOS protection

Application Replacement and Acquisition

In order to support operational needs and application lifecycles, the following services have been targeted for upgrade, replacement, or acquisition.
- Student portal and information dashboards

- Learning Management System
- Asset management and reporting system
- Continuing Education and Business Training Information System

Technology Replacement Upgrades

In order to maintain operational effectiveness as an institution, we will continue to cycle out technology assets as their lifecycle expiration warrants replacement or equipment failure occurs.

HYFLEX classroom expansion

In support of the academic master plan, we will expand the number of classrooms that support mixed modality course offerings allowing more flexibility in scheduling classrooms for concurrent hybrid timeslots.

Communications Upgrade

We will be upgrading our telecommunications capabilities to expand employee voice communication options and allow the potential for reduced expenditures on equipment and service plans.