



Pre-Medical Studies A.S.

Career Community: Science and Mathematics

Curriculum Code: 0754

Effective: Fall 2025 – Summer 2030

Purpose of the Major

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

Milestone

In addition to the required General Education courses in Math and English, completion of BIOL 127, BIOL 128, CHEM 151, and CHEM 161 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses may be the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses. Some courses require a higher grade for transfer; it is important to check with the school you are transferring to for their minimum grade requirements.

Contact Information

Contact the Science Department in the Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

Major Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
BIOL 127	Cell Biology	4 / 6
BIOL 128	Organismal Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 251	Organic Chemistry Lecture I	4 / 4
CHEM 252	Organic Chemistry Lecture II	4 / 4
CHEM 272	Organic Chemistry Laboratory	2 / 6

Course Code	Course Title	Credit / Billing Hours
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132	Dynamics of Communication Fundamentals Public Speaking Small Group Communication Interpersonal Communication Nonverbal Communication Composition II Honors Composition II	3 / 3 3 / 3 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 126 or MATH 151	Precalculus Calculus I	5 / 5 4 / 4
PHYS 221	Introductory Physics I	4 / 6

Notes:

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

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

Students wishing to waive ACAD 100 should contact their advisor.

Major Required Courses, Limited Choice – Humanities and Fine Arts - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Humanities and Fine Arts](#).*

PHIL 151 or PHIL 152 recommended.

Major Required Courses, Limited Choice – Social Sciences - *Select two courses from different disciplines from [LCC General Education, Transfer Degrees \(MTA\), Social Sciences](#).*

Major Required Courses, Limited Choice – *Select 8 credits*

Course Code	Course Title	Credit / Billing Hours
CHEM 255	Biological Chemistry	4 / 4
MATH 141	Calculus with Applications	4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
PHYS 222	Introductory Physics II	4 / 6

General Education - Transfer Degrees (MTA)

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

Elective Courses

Complete courses as needed from the list of [AA and AS Elective Courses](#) to reach the 60-credit minimum for this degree. Courses used to fulfill the requirements above cannot be used as Elective courses. For course selections, speak with an advisor or consult the program website(s) at the institution(s) you are considering for transfer.

Minimum Total Credit Hours

60 credits / 72 billing hours

Recommended Course Sequence

Semester I
ACAD 100
CHEM 151 – Milestone course
CHEM 161 – Milestone course
ENGL 121 or ENGL 131
MATH 126 or MATH 151

Semester II
BIOL 128 – Milestone course
COMM 120 or COMM 130 or COMM 200 or COMM 240 or COMM 260 or ENGL 122 or ENGL 132
PHYS 221
Limited Choice – Social Sciences

Semester III
BIOL 127 – Milestone course

Semester III
CHEM 251
Limited Choice - Humanities and Fine Arts
Limited Choice - Social Sciences

Semester IV
CHEM 252
CHEM 272
Limited Choice - Humanities and Fine Arts
Limited Choice
Limited Choice
Electives as needed for total credits

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