

**LANSING COMMUNITY COLLEGE**

**Liberal Arts**

**Curriculum Code: 1620**  
**(Effective Fall 2018 –**  
**Summer 2023)**

**Mathematics A.S. Pathway**

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).

**General Education - MTA: MINIMUM: 30 credits**

Complete General Education - MTA Requirements for the Associate of Arts Degree

- A. English Composition: One course
- B. English Composition (second course) or Communication: One course
- C. Humanities and Fine Arts: A total of 2 courses, each from a different discipline
- D. Mathematics: One course from Quantitative Reasoning, College Algebra or Statistics
- E. Natural Sciences: A total of 2 courses, each from a different discipline; one must be a lab course
- F. Social Science: A total of 2 courses, each from a different discipline

In order to graduate with this degree, a student must earn a minimum grade of 2.0 in all courses.

**For More Information**

Contact the Mathematics and Computer Science Department, Arts and Sciences Building, Room 3203, telephone number (517) 483-1073, or the Academic Advising Department, Gannon Building – Star Zone, telephone number (517) 483-1904.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
<b>General Education - Area A. English Composition - <i>Select 1</i></b>			
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
ENGL 131	Honors Composition I	Reading Level 5 and Writing Level 7	4 / 4
<b>General Education - Area D. Mathematics - <i>Select 1</i></b>			
MATH 151	Calculus I	(Minimum 2.0 in MATH 122 or MATH 126 within 2 years or Math Level 9 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
MATH 161	Honors Calculus I	Minimum 3.0 in MATH 122 or MATH 126 within 2 years and Reading Level 5 and Writing Level 6	4 / 4

**Program of Study Requirement**

*PHIL 151 also satisfies one of the two courses needed for the General Education Humanities and Fine Arts requirement.*

PHIL 151	Intro to Logic & Critical Thinking	Reading Level 5	4 / 4
<b>General Education - Area E. Natural Sciences – <i>Select 1</i></b>			
ASTR 201	Introductory Astronomy	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 or MATH 109 concurrently)	4 / 5
BIOL 120	Environmental Science	(Reading Level 5 or ENGL 099 concurrently) and Writing Level 6	4 / 6
CHEM 151	General Chemistry Lecture I	Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 109 concurrently or MATH 112 concurrently)	4 / 4
PFHW 123	Human Nutrition	Reading Level 5 and Writing Level 6	3 / 3
<b>Credits</b>			<b>15-16 / 15-18</b>
<b>Semester II</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>General Education - Area B. English Composition or Communication - <i>Select 1</i></b>			
ENGL 122	Composition II	Minimum 2.0 in ENGL 121 or ENGL 131 or (Reading Level 5 and Writing Level 8)	4 / 4
ENGL 132	Honors Composition II	Minimum 3.5 in ENGL 121 or ENGL 131 or Reading Level 5 and Writing Level 8	4 / 4
<b>General Education - Area F. Social Science - <i>Select 1</i></b>			
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or (ENGL 098 or ENGL 099 concurrently)	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)	4 / 4

<b>Program of Study Requirements - <i>Select 1</i></b>			
MATH 152	Calculus II	(Minimum 2.0 in MATH 151 or MATH 161 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
MATH 162	Honors Calculus II	Minimum 2.0 in MATH 161 within 2 years or minimum 3.0 in MATH 151 within 2 years and Reading Level 5	4 / 4
<b>Program of Study Requirements</b>			
CPSC 230	Algorithms and Computing w/ C++	(Minimum 2.0 in MATH 151 or MATH 161 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
<b>Credits</b>			<b>16 / 16</b>
<b>Semester III</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>General Education - Area C. Humanities and Fine Arts - <i>Select 1</i></b>			
HIST 211	U.S. History to 1877	Reading Level 5 and Writing Level 6	4 / 4
HIST 212	U.S. History: 1877 to Present	Reading Level 5 and Writing Level 6	4 / 4
MUSC 240	Musical Cultures to 1750	Reading Level 5 and Writing Level 4 or (ENGL 098 or ENGL 099 concurrently)	4 / 4
MUSC 241	Musical Cultures 1750-Present	Reading Level 5 and Writing Level 4 or (ENGL 098 or ENGL 099 concurrently)	4 / 4
<b>Program of Study Requirements</b>			
<i>PHYS 251 also satisfies one of the two courses needed for the General Education Natural Sciences requirement.</i>			
MATH 253	Calculus III	(Minimum 2.0 in MATH 152 or MATH 162 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4
PHYS 251	Physics I with Calculus	(Minimum 2.0 in MATH 152 or MATH 162 or concurrently) and Reading Level 5 and Writing Level 6	5 / 7
CPSC 260	Computer Science Structures	Minimum 2.0 in (CPSC 227 or CPSC 230) and (MATH 151 or MATH 161 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
<b>Credits</b>			<b>17 / 19</b>

Semester IV	Course Title	Prerequisites	Credit/Billing Hours
<b>General Education - Area F. Social Science - <i>Select 1</i></b>			
COMM 280	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
POLS 260	Comparative Political Systems	Reading Level 5 and Writing Level 6	3 / 3
<b>Program of Study Requirements</b>			
MATH 254	Intro to Differential Equation	Minimum 2.0 in MATH 253 within 2 years and Reading Level 5 and Writing Level 6	4 / 4
MATH 260	Linear Algebra	Minimum 2.0 in MATH 152 within 2 years and Reading Level 5 and Writing Level 6	4 / 4
<b>Electives - <i>Select 1</i></b>			
CPSC 231	Computing and Data Structures	Minimum 2.0 in CPSC 227 or CPSC 230 and Reading Level 5 and Writing Level 6	4 / 4
PHYS 252	Physics II with Calculus	Minimum 2.0 in PHYS 251 and (Minimum 2.0 in MATH 152 or MATH 162) and Reading Level 5 and Writing Level 6	5 / 7
STAT 215	Intro to Probability and Stats	Minimum 2.0 in MATH 120 or above or Math Level 7) and Reading Level 5 and Writing Level 4	4 / 4
<b>Credits</b>			<b>15-17 / 15-19</b>
<b>Total Credits</b>			<b>63-66 / 65-72</b>