

LANSING COMMUNITY COLLEGE

Liberal Arts

Curriculum Code:
0169 (Effective Fall
2017 – Summer
2022)

Computer Science 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.

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

General Education - Area F. Social Science - <i>Select 1</i>			
ANTH 270	Cultural Anthropology	Reading Level 5 and Writing Level 6	3 / 3
COMM 280	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or AASD 105 concurrently	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or AASD 105 concurrently	4 / 4
Program of Study Requirements			
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
Credits			15-16 / 15-16
Semester II	Course Title	Prerequisites	Credit/ Billing Hours
General Education - Area B. English Composition or Communication - <i>Select 1</i>			
ENGL 122 <i>(formerly WRIT 122)</i>	Composition II	Reading Level 5 and Writing Level 8 or Minimum 2.0 in ENGL 121 (formerly WRIT 121) or ENGL 131 (formerly WRIT 131)	4 / 4
ENGL 132 <i>(formerly WRIT 132)</i>	Honors Composition II	Reading Level 5 and Writing Level 8 and Minimum 3.5 in (WRIT 121 or WRIT 131)	4 / 4

General Education - Area E. Natural Sciences (Lab) - <i>Select 1</i>			
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 and Writing Level 6 or AASD 105 concurrently	4 / 6
CHEM 135	Chemistry in Society	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 5
GEOG 221	Physical Geography	Reading Level 5 and Writing Level 6	4 / 4
ISCI 131	Integrated Physical Science	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
Program of Study Requirements			
CPSC 231	Computing and Data Structures	(Minimum 2.0 in MATH 151 or MATH 161 or concurrently) and Reading Level 5 and Writing Level 6	4 / 4
Program of Study Requirement - <i>Select 1</i>			
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
Credits			16 / 16-18

Semester III	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area C. Humanities and Fine Arts - <i>Select 1</i>			
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
PHIL 211	Philosophy: Ancient & Medieval	Reading Level 5 and Writing Level 6	4 / 4
PHIL 212	Philosophy: Modern & Contemporary	Reading Level 5 and Writing Level 6	4 / 4
General Education - Area F. Social Science - <i>Select 1</i> <i>MUST from a different code than previously selected.</i>			
ANTH 270	Cultural Anthropology	Reading Level 5 and Writing Level 6	3 / 3
COMM 280	Intercultural Communication	Reading Level 5 and Writing Level 6	3 / 3
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
PSYC 200	Introduction to Psychology	Reading Level 5 or AASD 105 concurrently	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or AASD 105 concurrently	4 / 4
Program of Study Requirements			
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
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
Credits			15-16 / 15-16

Semester IV	Course Title	Prerequisites	Credit/Billing Hours
General Education - Area C. Humanities and Fine Arts - <i>Select 1</i> <i>MUST from a different code than previously selected.</i>			
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
HUMS 214	World Civilizations from 1600	Reading Level 5 and Writing Level 6	4 / 4
PHIL 211	Philosophy: Ancient & Medieval	Reading Level 5 and Writing Level 6	4 / 4
PHIL 212	Philosophy: Modern & Contemporary	Reading Level 5 and Writing Level 6	4 / 4
General Education - Area E. Natural Sciences - <i>Select 1</i>			
BIOL 125	Introductory Biology	Reading Level 5 and Writing Level 6	4 / 5
CHEM 125	Basic Chemistry	Reading Level 5 and Writing Level 4 and Math Level 5	4 / 4
GEOL 221	Physical Geology	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
GEOL 230	Environmental Geology	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
PFHW 123	Human Nutrition	Reading Level 5 and Writing Level 6	3 / 3
PHYS 120	The Art of Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 concurrently or MATH 109 concurrently)	4 / 5

Program of Study Requirements - <i>Select 2</i>			
CPSC 131	Numerical Methods and MATLAB	(Minimum 2.0 in MATH 151 or MATH 161 or concurrently) and Reading Level 5 and Writing Level 6	3 / 4
MATH 254	Intro to Differential Equations	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 253 within 2 years and Reading Level 5 and Writing Level 6	4 / 4
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
			Credits
			14-16 / 15-18
			Total Credits
			60-64 / 61-68