



Computer Science A.S.

Curriculum Code: 0169

Effective: Fall 2019 – Summer 2024

Description

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).

Additional Information

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

PHIL 151 is recommended for one of the Humanities and Fine Arts courses.

It is highly recommended that transfer students wishing to pursue a degree in theoretical computer science take MATH 260, Linear Algebra, for one of the required courses.

Contact 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.

General Education MTA Courses, Recommended Choices

(For the full list of options, see [Michigan Transfer Agreement](#))

- English Composition – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course) or Communication – *Select one*
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts – *Select two, each from a different discipline*
HIST 211, U.S. History to 1877, 4 credits / 4 billing hours
HIST 212, U.S. History: 1877 to Present, 4 credits / 4 billing hours
HUMS 214, World Civilizations from 1600, 4 credits / 4 billing hours
MUSC 240, Musical Cultures to 1750, 4 credits / 4 billing hours
MUSC 241, Musical Cultures 1750-Present, 4 credits / 4 billing hours
PHIL 151, Intro to Logic & Critical Thinking, 4 credits / 4 billing hours
PHIL 211, Philosophy: Ancient & Medieval, 4 credits / 4 billing hours
PHIL 212, Philosophy: Modern & Contemporary, 4 credits / 4 billing hours

- Mathematics
Program of Study Required Courses fulfills this requirement
- Natural Sciences – *Select two, each from a different discipline, one must be a lab course*
BIOL 120, Environmental Science, 4 credits / 6 billing hours
CHEM 151 and 161, General Chemistry I Lecture and Lab, 5 credits / 7 billing hours total
GEOL 221, Physical Geology, 4 credits / 6 billing hours
PHYS 251, Physics I with Calculus, 5 credits / 7 billing hours
- Social Science – *Select two, each from a different discipline*
COMM 280, Intercultural Communication, 3 credits / 3 billing hours
ECON 120, Power, Authority and Exchange, 4 credits / 4 billing hours
GEOG 200, World Regional Geography, 4 credits / 4 billing hours
POLS 260, Comparative Political Systems, 3 credits / 3 billing hours
PSYC 200, Introduction to Psychology, 4 credits / 4 billing hours
SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
CPSC 230	Algorithms and Computing w/C++	4 / 4
CPSC 231	Computing and Data Structures	4 / 4
CPSC 260	Computer Science Structures	4 / 4
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4

Program of Study Required Courses – Limited Choice – *Select two*

Course Code	Course Title	Credit / Billing Hours
CPSC 131	Numerical Methods and MATLAB	3 / 4
MATH 254	Intro to Differential Equations	4 / 4
MATH 260	Linear Algebra	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

Total Credit Hours

61-66 credits / 66-70 billing hours

Recommended Course Sequence

Semester I	Semester II
MTA English Composition MTA Humanities and Fine Arts MATH 151 CPSC 230	MTA English Comp (2nd course) or Communication MTA Social Science CPSC 231 MATH 152

Semester III	Semester IV
MTA Natural Science MTA Social Science CPSC 260 MATH 253	MTA Humanities and Fine Arts MTA Natural Science Limited Choice Limited Choice