



# Associate in Science in Computer Science

Curriculum Code: 0169

Effective Fall 2015 -Summer 2020

## Associate in Science in Computer Science

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 \(1482\)](#). Transfer students are **strongly** encouraged to apply for this certificate along with their degree, as it clearly announces to four-year colleges and universities that the student has successfully completed the MTA. General education and subject area requirements may vary from one college or university to another.

### I. General Education (MTA): **MINIMUM: 30 credits**

Complete [General Education – MTA Requirements](#) for the Associate of Science Degree

- A. **English Composition:** One course
- B. **English Composition** (second course) **or Communication:** One course – *Choose WRIT 122/132*
- 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 – *Choose MATH 151 or MATH 161*
- 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

### II. Required Courses within the Major: (See Note 1)

Complete each of the following courses:

Course Code	Title	Credits
CPSC 230	Algorithms and Computer w/C++	4
CPSC 231	Computing and Data Structures	4
CPSC 260	Computer Science Structures	4
Choose one of the following courses:		
MATH 152	Calculus II	4
MATH 162	Honors Calculus II	4
Choose one of the following courses:		
CPSC 131	Numerical Methods and MATLAB	3
MATH 253	Calculus III	4
MATH 254	Intro to Differential Equations	4
MATH 260	Linear Algebra	4
STAT 215	Intro to Probability and Stats	4

### III. Electives:

Complete courses as needed from the list of [Elective Courses](#) to reach the 60 credit minimum for the degree. Courses used to fulfill requirements in I. and II. above cannot be used as Elective courses.

**MINIMUM TOTAL: 60 credits**

### Notes:

- 1) It is recommended that students pursuing this degree consider taking the following course when completing Required Courses within the Major: MATH 253

- 2) It is recommended that students pursuing this degree consider the following Suggested Course Sequence when completing an Educational Development Plan (EDP):

<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>
CPSC 230	CPSC 231	CPSC 260	GE: NAT SCI
GE: MATH 151/161	MATH 152/162	MATH 253	ELECTIVE
GE: ENG COMP	GE: WRIT 122/132	GE: HUMS	ELECTIVE
GE: SOC SCI	GE: HUMS	GE: SOC SCI	
	GE: NAT SCI		