

2022-23 ACADEMIC PROGRAMS

COMPUTER SCIENCE: PROGRAMMING IN JAVA (ASCSPJ)

Associate in Science

This associate degree program prepares students to transfer to a 4-year college or university to complete a bachelor's degree in computer science or applied computer science. With a bachelor's degree, students will be prepared to pursue careers in computer science fields such as:

- computer systems programming and analysis,
- software development and maintenance, or
- applications programming.

This is a **high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

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Description

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

Articulation

Eastern Michigan University, BBA, BA and BS degrees;
Madonna University BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

Admissions Requirements

Students must have:

- Academic Math Level of 4 or higher to enroll in CPS 161.
- Academic Math Level of 4 or higher to enroll in MTH 176.

Course Requirements

First Semester

Class	Title	Minimum Credits
CPS 161	An Introduction to Programming with Java	4
Elective	MTH 176 or higher 4 credit math course	4
Elective	Arts/Human. Elective(s) 1*	3
Elective	Nat. Sci. Elective(s)	3
Total		14

Second Semester

Class	Title	Minimum Credits
ENG 111	Composition I	4
CPS 261	Advanced Java Concepts	4
CPS 276	Web Programming Using PHP and MySQL	4
Elective	Soc. Sci. Elective(s) 1	3
Total		15

Third Semester

Class	Title	Minimum Credits
CIS 282	Database Principles and Application	3
CPS 278	Java Spring Framework	4
Elective	Nat. Sci. Lab Elective(s)	3
Elective	Speech/Comp. Elective(s)	3
Elective	Soc. Sci. Elective(s) 2	3
Total		16

Fourth Semester

Class	Title	Minimum Credits
CIS 120	Linux/UNIX I: Fundamentals	3
CPS 251	Android Programming	4
CPS 298	Professional Team Programming	4
Elective	Arts/Human. Elective(s) 2*	3
Elective	General Education Elective(s) (0-1 credit) to reach a minimum 30 General Education Credits	1
Total		15

Total Credits Required: 60

Footnotes

*Suggest selecting a WCC general education course that satisfies EMU's Diverse World Requirement. A list of these courses may be found at <https://www.wccnet.edu/learn/transfer-wcc-credits/emu-diverse-world.php>.

See an advisor to choose courses that meet the requirements of the program to which you are transferring.

Accurate as of 08/12/2022 Information is subject to change without notice.