

# 2021-22 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 Server Programming             | 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 03/03/2021 Information is subject to change without notice.