COMPUTER SCIENCE: PROGRAMMING IN JAVA (AS)

Catalog Effective Term: Fall 2024
Program Code: ASCSPJ
Credential: Associate in Science
High Skill Occupation, High Wage Occupation

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

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

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

Program Admission Requirements

- An Academic Math Level of 4 or higher is required to enroll in CPS 161 An Introduction to Programming with Java.
- An Academic Math Level of 4 or higher is required to enroll in MTH 176 College Algebra.

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

Minimum Credits Required for the Program: 60

Full-Time Students

Course	Title	Credits
First Semester		
CIS 120	Linux/UNIX I: Fundamentals	3
CPS 161	An Introduction to Programming with Java	4
ENG 111	Composition I	4
MTH 176	College Algebra (or higher 4 credit math course)	4
	Credits	**15**
Second Semester		
CIS 282	Database Principles and Application	3
CPS 261	Advanced Java Concepts	4
Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#arthuma) 1 [1]		3
Speech/Comp. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#writing)		3
Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci) 1		3
	Credits	**16**

Course	Title	Credits
Third Semester		
CPS 276	Web Programming Using PHP and MySQL	4
CPS 278	Java Spring Framework	4
Nat. Sci. Lab Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#natscilab)		3
Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci) 2		3
	Credits	**14**
Fourth Semester		
CPS 251	Android Programming	4
CPS 298	Professional Team Programming	4
Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#arthuma) 2 [1]		3
Nat. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#naturalsci)		3
General Education Elective to reach a minimum of 30 General Education credits.		1
	Credits	**15**
	Total Credits	**60**

1 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 (http://www.wccnet.edu/learn/transfer-wcc-credits/emu-diverse-world.php).

Part-Time Students

Course	Title	Credits
First Semester		
CPS 161	An Introduction to Programming with Java	4
MTH 176	College Algebra (or higher 4 credit math course)	4
	Credits	**8**
Second Semester		
CPS 261	Advanced Java Concepts	4
ENG 111	Composition I	4
	Credits	**8**
Third Semester		
Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#arthuma) 1 [1]		3
Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci) 1		3
	Credits	**6**
Fourth Semester		
CIS 282	Database Principles and Application	3
CPS 276	Web Programming Using PHP and MySQL	4
	Credits	**7**
Fifth Semester		
CIS 120	Linux/UNIX I: Fundamentals	3
CPS 278	Java Spring Framework	4
	Credits	**7**

Sixth Semester

Nat. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#naturalsci)		3
Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#socbehavsci) 2		3
	Credits	**6**

Seventh Semester

CPS 251	Android Programming	4
Nat. Sci. Lab Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#natscilab)		3
	Credits	**7**

Eighth Semester

CPS 298	Professional Team Programming	4
Speech/Comp. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#writing)		3
	Credits	**7**

Ninth Semester

Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/academics/general-education/#arthuma) 2 [1]		3
General Education Elective to reach a minimum of 30 General Education credits.		1
	Credits	**4**
	Total Credits	**60**

[1] 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 (http://www.wccnet.edu/learn/transfer-wcc-credits/emu-diverse-world.php).