Computer Science Concentration

Degree Type

Associate in Arts

Using hands-on projects and teamwork, Computer Science students learn to design, implement, and test programs in Java, C++, and assembly language. Students analyze and use various software development models and basic software engineering principles. Object-oriented programming methodology, systems software, and data structures are studied in depth. Students satisfy the general education requirements and MassTransfer with concentrated coursework in Calculus and Physics.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an advisor with questions.

Learn more about the program and apply at Associate in Arts - Computer Science

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT240	Calculus I	4
M	CSC110 or CSC120 or CSC105	3-4
	PHY151 or PHY211	4
	Behavioral & Social Sciences	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
MAT250	Calculus II	4
CSC130	Computer Programming II: Java	4
<u> </u>	PHY152 or PHY212	4

Third Semester

Item #	Title	Credits
CSC230	Data Structures	4
	CSC125 or ENR110	3-4
	Humanities & Fine Arts	3
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3

Fourth Semester

*CSC240 is recommended for students who plan to transfer to UMass-Dartmouth or UMass-Amherst.

Item #	Title	Credits
	CSC240 or Elective (if needed)	0-4
CSC250	Computer Organizational & Architecture	3
	MAT245 or MAT220	3-4
	STEM elective	3-4
	STEM elective	3-4

Total Credits 61-67

Transfer Information

Information Technology

Career Outlook

Most Computer Science students continue their education at a four-year school. Computer scientists design computers, software, and information technologies. Computer engineers also work with hardware and software, often in the process of building prototypes. By far the most numerous of computer professionals and system analysts solve computer problems and customize technology to satisfy the needs of an organization. Computer scientists, computer engineers, and systems analysts are among the fastest growing occupations.

This occupational profile is provided by O*NET.

See also: What can I do with this major?

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of MassTransfer. For additional information pertaining to degree requirements, please refer to Degree Requirements