

Programming for Computer Science Certificate

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
CSC120	Computer Programming I: C++	4	(MAT030 or MAT035) or satisfactory basic skills assessment score & working knowledge of any programming language	Fall		
CSC110	Computer Programming I: JAVA	3	(MAT030 or MAT035) or satisfactory basic skills assessment score	Fall, Spring		
CSC130	Computer Programming II: JAVA	4	CSC110	Spring		
CSC210	System Software and Assembly Language Programming	4	CSC130	Varies		
CSC230	Data Structures	4	CSC120 & CSC130	Varies		
	General Education elective	3				
Total Credits		22				

Overview

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 also complete concentrated course work in Calculus and Physics.

Career Outlook

This occupational profile is provided by O*NET.

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