Computer Programming Certificate

Program Code:
CZ
Academic Area:
Science, Technology, Engineering and Mathematics
Type:
Certificate of Accomplishment

Program Statement

A certificate in Computer Programming gives students mastery of basic programming concepts. The student becomes literate in at least three programming languages and achieves advanced mastery of more sophisticated concepts in at least one programming language.

Program Information

- Students who have earned credit at other institutions may be able to obtain transfer credit. Transfer credit approval for any Computer Information Systems (CIS or CIT) course must be approved by the Department Chair or by a full-time faculty member in the department.
- Students without basic computer skills should enroll in CIS 111 prior to enrolling in this certificate.
- Students should plan to spend large blocks of time developing proficiency.

Program Requirements

Course #	Title	Credits
	CIS 150, 152 or CIS 159	3
	Computer Programming Elective	3-4
	Computer Programming Language Elective	3-4
	Computer Programming Language Sequence	6-8

Recommended Course Sequence - Semester 1

Course #	Title	Credits
	CIS 150, 152 or CIS 159	3
	First-semester Programming Language Elective	3-4
	Computer Programming Elective	3-4

Recommended Course Sequence - Semester 2

Course #	Title	Credits
	CIS 150, 152 or CIS 159	3
	Second-semester Programming Language Elective	3-4
	Computer Programming Language Elective	3-4

Category Descriptions

CIS 150, 152 or CIS 159

Credits: 3

Choose one of the following:

Course #	Title	Credits
CIS 150	Oracle and SQL	3
CIS 159	MySQL and PHP	3

Computer Programming Elective

Credits: 3-4

Choose one of the following:

Course #	Title	Credits
CIS 122	Internet Developer	3
CIS 150	Oracle and SQL	3
CIS 155	Introduction to C++ Programming	3
CIS 157	Object-Oriented JAVA Programming I	4
CIS 250	Interactive Websites	3
CIS 255	C++ Object Oriented Programming	3
CIS 257	Object-Oriented JAVA Programming II	4
CIT 143	Programming for Game Developers I	3
CIT 242	Programming for Game Developers II	3

Computer Programming Language Elective

Credits: 3-4

Choose one of the following:

Course #	Title	Credits
CIS 155	Introduction to C++ Programming	3
CIS 157	Object-Oriented JAVA Programming I	4
CIS 250	Interactive Websites	3
CIT 143	Programming for Game Developers I	3

Computer Programming Language Sequence

Credits: 6-8

Choose one of the following sequences:

Course #	Title	Credits
	CIS 155 and CIS 255	6
	CIS 156 and CIS 256	6
	CIS 157 and CIS 257	8
	CIS 159 and CIS 258	6