



Academic Plan
Object Oriented Programming Certificate
EFFECTIVE CATALOG YEAR 2018-2019



Required Courses

CIS 275- Web Application Programming I – 3 credits

An introduction to the languages used to develop web applications with focus on client-side technologies. Topics include, but are not limited to, web programming practices. HTML, CSS, JavaScript, and modern frameworks to support client-side web development. Prerequisites: CIS 123 or CIS 130 or CSC 150

CSC 150- Computer Science I – 3 credits

An introduction to computer programming. Focus on problem solving, algorithm development, design, and programming concepts. Topics include sequence, selection, repetition, functions, and arrays.

CSC 250- Computer Science II – 3 credits

Problem solving, algorithm design, standards of program style, debugging and testing. Extension of the control structures and data structures of the high-level language introduced in CSC 150. Elementary data structures and basic algorithms that include sorting and searching. Topics include more advanced treatment of functions, data types such as arrays and structures, and files. Prerequisite: CSC 150

CSC 260- Object Oriented Design – 3 credits

This course emphasizes object-oriented programming methodologies. An object-oriented language will be used to illustrate these OO concepts. The Unified Modeling Language (UML) will be introduced. Prerequisite: CSC 250