

Computer Science Certificate

Degree Type

Certificate

Environment

online

Program Length

28 weeks

Overview

The Computer Science undergraduate certificate curriculum equips students with a fundamental understanding of computer science through problem-solving in programming languages. Through the study and application of industry-standard practices and object-oriented programming, students will explore the pillars of computer science, including logic, algorithms, functions, and control flow. Students will expand their critical-thinking skills and demonstrate their working knowledge of computer science by participating in an immersive team project in building targeted software solutions.

Objective

Certificate's Objective sThe goal of the Computer Science undergraduate certificate program is to provide students with a foundational understanding of computer science. Students will obtain basic skills and practice with concepts that will be translatable to entry-level positions as quality assurance testers, scripters, and tool developers. In addition to building introductory programming experience, students in this program will broaden their technical proficiency as well as creativity in development. The Computer Science undergraduate certificate program will help students foster the critical-thinking, problem-solving, and analytical skills required to enter the computer science and software development industries.

Month 1

| Code | Title | Credit Hours |
|---------|--|--------------|
| TEM1001 | Technology in the Entertainment and Media Industries | 4.0 |

Month 2

| Code | Title | Credit Hours |
|---------|----------------------|--------------|
| MAD1100 | Discrete Mathematics | 4.0 |

Month 3

| Code | Title | Credit Hours |
|---------|---------------|--------------|
| COP1334 | Programming I | 4.0 |

Month 4

| Code | Title | Credit Hours |
|---------|----------------|--------------|
| COP2334 | Programming II | 4.0 |

Month 5

| Code | Title | Credit Hours |
|-------------|---------------------|---------------------|
| SDV3111 | Systems Programming | 4.0 |

Month 6

| Code | Title | Credit Hours |
|-------------|-----------------------------|---------------------|
| COS155 | Project I: Computer Science | 2.0 |

Month 7

| Code | Title | Credit Hours |
|---------------------------|-------------------------------|---------------------|
| COS156 | Portfolio I: Computer Science | 1.0 |
| Total Credit Hours | | 23 |