

# 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

Month 1

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

## Month 2

Month 2

Code	Title	Credit Hours
MAD1100	Discrete Mathematics	4.0

## Month 3

Month 3

Code	Title	Credit Hours
COP1000	Programming I	4.0

## Month 4

Month 4

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
COP2334	Programming II	4.0

## Month 5

Month 5

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
SDV3111	Systems Programming	4.0

## Month 6

Month 6

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
COS155	Project I: Computer Science	2.0

## Month 7

Month 7

<b>Code</b>	<b>Title</b>	<b>Credit Hours</b>
COS156	Portfolio I: Computer Science	1.0
<b>Total Credit Hours</b>		<b>23</b>