

# Computer Science Bachelor of Science

## Degree Type

Bachelor of Science

## Environment

online

## Program Length

108 weeks

## Overview

The Computer Science curriculum familiarizes you with the complex and ever-changing world of today's software developers and software engineers. The goal of this curriculum is to educate you on the design, development, and implementation of software-based solutions and other software products for the business, entertainment, and consumer markets. To achieve this goal, the curriculum is designed to provide you with a comprehensive understanding of programming languages and skills, software-design skills, and various computer science methodologies. You will engage in application creation by participating in various computer science projects throughout the degree program that will equip you to understand the differences between small programming projects and large-enterprise software-systems projects. Through this hands-on curriculum, you will also be able to design and develop your own software project for emerging technologies. Furthermore, you will gain the critical-thinking and professional skills necessary for effective software development.

## Objective

**Bachelor's Objective** In addition to a foundational understanding of programming skills, today's computer scientists require a breadth of knowledge and skills to compete in this dynamic industry. The goal of the Computer Science Bachelor of Science degree program is to develop your software design and production capabilities to prepare you for entry-level positions in this field, such as software engineer, software architect, computer applications engineer, UI developer, software quality engineer, and a variety of others. It is also a goal of the program to encourage lifelong learning and critical-thinking skills through threaded research, analysis, and professional development. Through project-based learning, you will be able to create your own software-application project and articulate and deliver this project through appropriate communication strategies and business models.

## Month 1

Code	Title	Credit Hours
GEN1011	Creative Presentation	3.0

## Month 2

Code	Title	Credit Hours
DEP1013	Psychology of Play	3.0

## Month 3

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

## Month 4

Code	Title	Credit Hours
MAD1100	Discrete Mathematics	4.0

## Month 5

Code	Title	Credit Hours
COP1334	Programming I	4.0

## Month 6

Code	Title	Credit Hours
COP2334	Programming II	4.0

## Month 7

Code	Title	Credit Hours
SDV3111	Systems Programming	4.0

## Month 8

Code	Title	Credit Hours
COS119	Project and Portfolio I: Computer Science	3.0
ENC1101	English Composition I	4.0

## Month 9

Code	Title	Credit Hours
SDV2213	Data Structures and Algorithms	4.0

## Month 10

Code	Title	Credit Hours
GEN242	Linear Algebra	4.0

## Month 11

Code	Title	Credit Hours
GDD258	Software Engineering	4.0
GEN262	Physics	4.0

## Month 12

Code	Title	Credit Hours
SDV3012	Applied Human-Computer Interaction	3.0
COS3111	Professional Development Seminar I: Computer Science	1.0

## Month 13

Code	Title	Credit Hours
COS229	Project and Portfolio II: Computer Science	3.0

## Month 14

Code	Title	Credit Hours
COS239	Project and Portfolio III: Computer Science	3.0
COS3222	Professional Development Seminar II: Computer Science	1.0

## Month 15

Code	Title	Credit Hours
COD3412	Digital Logic	4.0

## Month 16

Code	Title	Credit Hours
GDD291	Operating Systems	3.0

## Month 17

Code	Title	Credit Hours
COD3511	Computer Organization and Architecture	3.0

## Month 18

Code	Title	Credit Hours
COD3622	Information and Database Systems	3.0
SDV4116	Wearable Computing	3.0

## Month 19

Code	Title	Credit Hours
SDV4733	Software Test and Quality Assurance	4.0

## Month 20

Code	Title	Credit Hours
COS349	Project and Portfolio IV: Computer Science	3.0
GEN3322	Probability	4.0

## Month 21

Code	Title	Credit Hours
COD3721	Computer Networks	3.0
SIM3032	Data Visualization and Modeling	3.0

## Month 22

Code	Title	Credit Hours
SDV4102	Machine Intelligence Systems	4.0

## Month 23

Code	Title	Credit Hours
COS359	Project and Portfolio V: Computer Science	3.0

## Month 24

Code	Title	Credit Hours
SDV4327	Software Architecture	3.0
HIS3320	Historical Archetypes and Mythology	4.0

## Month 25

Code	Title	Credit Hours
COS469	Project and Portfolio VI: Computer Science	3.0

## Month 26

Code	Title	Credit Hours
SDV4719	Software Integration	3.0

## Month 27

Code	Title	Credit Hours
COS479	Project and Portfolio VII: Computer Science	3.0
CRR4000	Career Readiness	4.0

