

# Computer Science

## Bachelor of Science

### Description

Carolina University offers a Bachelor of Science (BS) degree in Computer Science. The courses in the computer science program are designed to teach the foundations of computing technology. The students are prepared for the changing nature of technology.

Courses include a variety of programming languages, platforms, operating systems, and a mixture of hands on and theoretical study. Our courses start at the introductory level and progress through the expert level.

Computer Science jobs are in high demand. A successful student with a BS in computer science can easily compete for high-paying jobs in such roles as programmer, computer systems analyst, application development, system support, technical staff, database design, network administrator, and many more.

Concentrations are offered in the following subjects:

- [Cybersecurity](#)
- [Data Science](#)
- [Esports](#)
- [Networking](#)
- [Software Systems](#)

For concentrations, all electives must be taken from the indicated courses for each division.

[3-Year Plan](#)

[4-Year Plan](#)

### Admissions Requirements

- A high school diploma or GED
- GPA of 2.0 or higher
- Official transcripts from all previously attended schools
- Completed application with Carolina University

### Graduation Requirements

In order to become a candidate for graduation a student:

1. Shall have completed a minimum of 30 credit hours at CU;
2. Shall have maintained a minimum academic average of C (2.0)
3. Shall have passed all courses in their curriculum and made a C or better in Professional courses designated as essential in each program;
4. Shall have completed at least 24 of the final 30 hours with Carolina University.

### Courses

**Gen Ed: Including the following required courses:**

<a href="#">General Education (39 Credits)</a>	39 Credit Hours
<a href="#">EN 215 - Technical Writing</a>	3 Credit Hours
<a href="#">GC 205 - Calculus I</a>	3 Credit Hours
<a href="#">GS 201 - Principles of Speech</a>	3 Credit Hours
<a href="#">MG 210 - Introduction to Statistics</a>	3 Credit Hours

#### Program Core Classes

<a href="#">GC 206 - Calculus II</a>	3 Credit Hours
<a href="#">CS 105 - Introduction to Computer Science</a>	3 Credit Hours
<a href="#">CS 110 - Programming I</a>	3 Credit Hours
<a href="#">CS 111 - Programming II</a>	3 Credit Hours
<a href="#">CS 150 - Scripting</a>	3 Credit Hours
<a href="#">CS 210 - Algorithms and Data Structures</a>	3 Credit Hours
<a href="#">CS 220 - Object Oriented Programming</a>	3 Credit Hours

<a href="#">CS 300 - Software Engineering</a>	3 Credit Hours
<a href="#">CS 310 - Algorithms &amp; Data Structures II</a>	3 Credit Hours
<a href="#">CS 315 - Database/SQL</a>	3 Credit Hours
<a href="#">CS 320 - Advanced OOP</a>	3 Credit Hours
<a href="#">CS 330 - Networking</a>	3 Credit Hours
<a href="#">CS 340 - Computer Architecture and Organization</a>	3 Credit Hours
<a href="#">CS 410 - Operating Systems</a>	3 Credit Hours
<a href="#">CS 425 - Advanced Database/SQL</a>	3 Credit Hours
<a href="#">CS 430 - Computer Security Fundamentals</a>	3 Credit Hours
<a href="#">CS 435 - Ethical Hacking</a>	3 Credit Hours
<a href="#">CS 450 - Introduction to Unix</a>	3 Credit Hours
<b>Thesis Project/Internship</b>	
CS 475 - Senior Project I	3 Credit Hours
CS 480 - Senior Project II	3 Credit Hours
CS 485 - Senior Project III	3 Credit Hours
CS 490 - Senior Project IV	3 Credit Hours
<b>Program Specific Electives (21 Credit Hours)</b>	