

# MAJOR IN COMPUTER SCIENCE, COMPUTER SCIENCE CONCENTRATION

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The Computer Science#general concentration is a broad program that prepares students for any introductory position in the computer science field and many other fields, including business, natural sciences, health, research, engineering, defense and more.

This concentration offers students options to customize their knowledge and skill set on top of core computer science concepts, allowing them to tailor their education to their passions. Students can focus on a specific research area (<https://compsci.colostate.edu/research/>) in their 400-level coursework or take a breadth focus – a little bit of everything – for a broader perspective. Students can also complete a second major or minor, producing a highly interdisciplinary degree.

This concentration allows students to build on multiple different skill sets from across the other concentrations. The knowledge, skill set and focus students create within this concentration varies depending on the courses taken.

## Learning Outcomes

Upon completing this program, students will be able to:

- Leverage teamwork to develop innovative, logical approaches to solving complex real-world problems.
- Analyze and improve processes and outcomes.
- Communicate technical skills verbally and in writing.
- Confidently pursue graduate studies or professional employment in computer science.

## Potential Occupations

This broad concentration is easily applicable to numerous industries and careers. Based on the courses chosen, potential occupations may be listed below, in other concentrations and as cross-disciplinary careers.

Potential occupations include: software engineer, mobile app developer, data scientist, big data engineer, machine learning engineer, virtual and augmented reality developer, cybersecurity analyst, bioinformatics engineer, computational chemist, mixed-reality artist, data journalist and many more.