

Choosing Intro Courses in Computer Science

A Guide to Intro Sequence Courses in Computer Science

This document provides guidance on choosing your first CS course(s) at CC. If you need further information, please contact any faculty member in the Department of Mathematics and Computer Science. We'd be happy to talk to you!

The intro sequence is composed of four courses, each building on the previous course, and most students will take them in the following order:

1. CP115 (Computational Thinking)
2. CP116 (Advanced Python)
3. CP122 (CS1)
4. CP222 (CS2)

Advanced Placement

If you have any experience programming, you should skip to **CP116**. Exceptional cases, such as professional experience, may be eligible for further placement with consent of the instructor.

If you scored a 4 or 5 on the **AP Computer Science Principles** test, you should skip to **CP122**.

If you scored a 4 or 5 on the **AP Computer Science A** test, you should skip to **CP222**

Note: You should be aware that upper-level classes (CP307, CP341) may be taught in Python. If you would like to learn Python before needing it for a class, consider taking CP116.

Math Courses

CP courses are only part of a complete Computer Science education! When choosing how to fulfill the math requirement of the major, consider some of the applications of the approved math course list:

- MA 117 Elementary Prob/Stat OR MA 217 Introduction to Prob/Stat
Useful for data science, AI, human-computer interactions
- MA 120 Applied Linear Algebra
Useful for data science, AI, networks, high performance computing
- MA126 Calc 1, MA129 Calc 2
Useful for AI, data science, robotics
- MA201 Discrete Mathematics
Useful for networks, high performance computing, analysis of algorithms
- MA251 Number Theory
Useful for theoretical computer science, cryptography