

# Choosing The Right Computer Science Courses for You

For all Computer Science classes, a solid understanding of Algebra (at the level of Math 60 or higher) is **strongly** recommended. Higher math is helpful but not needed. English language skills are also required. (ESL 160 or higher recommended.)

## Introductory Courses:

- **CS 101:** The most gentle introduction to Computer Science overall, no prerequisite
- **CS 110A or 111A:** The best introductory programming courses, also no prerequisite. **Take only one of these courses. Do not take both 110A and 111A.**
- **CS 160A:** Introduction to the Linux and Unix operating systems. Recommended for all CS students.
- **CS 150A or 151A or 155A:** Introduction to SQL databases, using Microsoft SQL Server, Oracle, or MySQL.
- **CNIT 131:** Internet Basics & Beginning HTML: Teaches key internet skills leading toward web development

## Intermediate and Advanced Courses:

- **CS 130A, 131A, 132A, or 113A:** For those who already know a little programming, these classes teach PHP, Python, Ruby, or Perl. If you have never programmed before, first take CS 101, 110A, or 111A.
- **CS 110B, 111B, or 114B:** For those who already know how to write programs with if-statements, loops, functions/methods, and arrays, in C++, Java, C# or a similar language. **If you want to learn both C++ and Java**, take both 110B and 111B (but don't take both 110A and 111A; don't take both 110C and 111C).
- See the [Class Schedule](#) and [Catalog](#) for a complete list of all the classes we offer. Curriculum details are on the [CS Department Web site](#).
- Advisories and Prerequisites are listed in the schedule and catalog. **Advisories include topics instructor will assume students already know.** Taking the advised courses first will greatly increase the likelihood of success in the class. If you haven't taken a **prerequisite** for a course, e-mail [computerscience@ccsf.edu](mailto:computerscience@ccsf.edu) to schedule a half-hour multiple choice challenge exam.

## Sequences of Classes, Including Degrees and Certificates

- If you don't already have a degree, we encourage you to pursue our AS or AS-T Degree in Computer Science, then transfer to complete a BS in CS. [Assist.org](#) has official info on which courses transfer where (articulation agreements). If you plan to get a Bachelor's Degree, look at the information By Major.
- **If you already have a bachelor's degree of any kind**, a Certificate is recommended instead of a second undergraduate degree, or consider pursuing a Master's Degree (check with specific universities to see which courses you can take at City College).
- For the most up-to-date certificate and course descriptions, see the CS Department's web page on [SLO Assessment and Curriculum Details for Computer Science](#).

For more info, contact the Computer Science Department Chair, Craig Persiko at [cpersiko@ccsf.edu](mailto:cpersiko@ccsf.edu)

Tutoring for CS students is available at the [Academic Computing Resource Center \(ACRC\)](#), BATL 301