

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.
- **CS 110A:** The best introductory programming course, also no prerequisite.
- **CS 160A:** Intro to the Linux and Unix operating systems. Recommended for all CS students.
- **CS 150A:** Introduction to SQL Databases and NoSQL data sources
- **CS 112:** Introduction to mobile app programming for iPhones using Swift, no prerequisite
- **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 or 110A.
- **CS 110B, 111B, or 114B:** For those who already know how to write programs with if-statements, loops, functions/methods, and arrays, in Python, C++, Java, or a similar language. If you have never programmed before, first take CS 110A.
- See the Class Schedule and College Catalog for a complete list of all the classes we offer.
- 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 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 Degree in Computer Science, then transfer to complete a BS in CS. [Assist.org](http://www.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 more information, see the CS Department's web page at <http://www.ccsf.edu/cs>

For more info, contact the Computer Science Department Chair, Craig Persiko at cpersiko@ccsf.edu

Tutoring for CS students is available at the Academic Computing Resource Center (ACRC), BATL 301. Their web site is at: <http://www.ccsf.edu/acrc>