4-Year Roadmap | Bachelor of Science in Computer Science (BSCS)

Effecive Fall 2024 | Check prerequisites for each course on Catalog

→ Pre-Requisite **F** Only in Fall
↔ Co-Requisite **S** Only in Spring

CAL STATE LA

Freshman Year

Fall — 16 Units
- **CS 1010** Intro to CS (Freshmen only) — 3
- **MATH 2110** Calculus 1 — 4
- **COMM 1100** Oral Comm — 3
- **ENGL 1010** Written Comm — 3
- **GE B2/B3** — 3

Spring — 14 Units
- **CS 2011** Intro to Programming I — 4
- **CS 1222** Intro to Relational Database — 3
- **MATH 2120** Calculus II — 4
- **U.S. History** — 3

Sophmore Year

Fall — 16 Units
- **CS 2012** Intro to Programming II — 4
- **CS 2470** Network Syst & Cyber Security — 3
- **CS 2445** Intro to Computer System — 3
- **U.S. Constitution & State/Local Govt.** — 3
- **GE C1** — 3

Spring — 14 Units
- **CS 2013** Programming w/ Data Structures — 4
- **CS 2148** Discrete Structures — 4
- **ENGL 2030** Intro to Technical Writing — 3
- **GE D** — 3

Junior Year

Fall — 15 Units
- **CS 3338** Software Engineering Tools — 1
- **CS 3220** Web and Internet Programming — 4
- **CS 3112** Analysis of Algorithm — 3
- **PHYS 2100** General Physics I — 4
- **GE F** — 3

Spring — 15 Units
- **CS 3035** Programming Paradigms — 3
- **CS 3801** Societal & Ethical Issues in Computing — 3
- **CS 3186** Intro To Automata Theory — 3
- **CS 3337** Software Engineering — 3
- **CS 4440** Intro to Operating Systems — 3

Senior Year

Fall — 15 Units
- **CS 4961** Senior Design Lab I — 3 — **F**
- **CS elective - 1** — 3
- **CS elective - 2** — 3
- **CS elective - 3** — 3
- **Math 2550** Intro to Linear Algebra — 3

Spring — 15 Units
- **CS 4962** Senior Design Lab II — 3 — **S**
- **CS 4963** Computer Science Recap — 3 — **S**
- **CS elective - 4** — 3
- **CS elective - 5** — 3
- **CS elective - 6** — 3