Lower Division Core (26)
- CMPS 150 – Introduction to Unix (1) (or CMPS 215 – Unix Programming Environment)
- CMPS 211 – Internet Programming and Web Design
- CMPS 221 – Programming Fundamentals (grade of C- or better)
- CMPS 222 – Object-Oriented Programming (grade of C- or better)
- CMPS 223 – Data Structures and Algorithms (grade of C- or better)
- CMPS 295 – Discrete Structures

Upper Division Core (51)
- CMPS 312 – Algorithm Analysis and Design
- CMPS 335 – Software Engineering
- CMPS 342 – Database Systems
- CMPS 350 – Programming Languages
- CMPS 356 – Artificial Intelligence
- CMPS 360 – Operating Systems
- CMPS 371 – Computer Graphics
- CMPS 376 – Computer Networks
- CMPS 394 – Client, Server, Internet, and Hand-held Device Programming
- CMPS 490A – Senior Project I (3)
- CMPS 490B – Senior Project II (3)

Advanced Elective Course (choose from CMPS 435, 442, 450, 456, 460, 471, 476) (5)

General Electives (20)
Choose from CMPS 215, 216, 224, or any other 300-/400-level CMPS or ECE course.
A minor may be used to offset some elective units with consent of a department advisor.

Cognate Requirements (15)
- MATH 140 – Elementary Statistics (or MATH 201 or higher)
- MATH 192 – Pre-calculus II (or MATH 201 or higher)
- PHIL 316 – Professional Ethics

Additional Units (any university units) (8-13)

General Education and University Requirements (50-57)
- Foreign Language Requirement – 2 yrs. high school or 1 college course
- CSUB 101 (2)
- A1 – Recommend COMM 108 (grade of C or better)
- A2 – ENGL 110 (grade of C or better)
- A3 (grade of C or better)
- B1/B3
  - Waived for Computer Science majors
- B4 – Satisfied by MATH 140, MATH 192, or MATH 201 or higher with grade of C or better
- C1
- C2, C4, or C5
- C3 – US History double-counts for C3 for Computer Science majors
- US History for American Institutions (AI) requirement
- D3/Government for AI requirement – Recommend PLSI 101
  - Area D – 5 units waived for Computer Science majors
- D1, D2, D4, or D5
  - Theme 1 – Met by completing CMPS 490A & B
  - Theme 2 – Satisfied by PHIL 316
  - Theme 3 – Waived for Computer Science majors
- Gender, Race, and Ethnicity (GRE) (3-5)
- GWAR – Pass exam or take course (COMM 304 – Technical Writing recommended for course)