## Lower Division (24)
- ECE 160 Introduction to Engineering (3)
- CMPS 150 (1) and CMPS 221 Programming Fundamentals
- CMPS 223 Data Structures and Algorithms
- CMPS 224 Assembly Language Programming
- CMPS 295 Discrete Structures

## Upper Division required (42)
- ECE 304 Signals & Systems I
- ECE 307 Analog Circuits
- ECE 320 Digital Circuits
- CMPS 321 Computer Architecture
- ECE 322 Digital Design with VHDL
- CMPS 360 Operating Systems
- ECE 420 Embedded Systems
- ECE 490A Senior Project I (3) and ECE 490B Senior Project II (4)

## Upper Division Computer Engineering Electives (three courses: select 1 course from each of the areas below) (15)
- ECE 422 or ECE 423 or ECE 425 or ECE 426
- ECE 457 or ECE 432
- ECE 446 or ECE 447

## Cognate Requirements (53)
- MATH 201/231 Calculus I (also satisfies B4)
- MATH 202/232 Calculus II
- MATH 203/233 Calculus III
- MATH 204/234 Calculus IV
- MATH 230/330 Linear Algebra
- MATH 340 Probability
- PHYS 221 Classical Physics I - Mechanics (6 – also satisfies B1, B3)
- PHYS 222 Classical Physics II - Thermodynamics and E&M (6)
- PHYS 223 Optics and Modern Physics (6)
- PHYS/ENGR 207 Electric Circuits

## Lower Division General Education (37)
- CSUB 101 (2)
- A1 - COMM 108
- A2 - ENGL 110
  - A3 - waived for Computer Engineering
  - B2 - waived by NSME B-Comm (04-19-2013)
- C1, C2
  - C3 - doublecounted by US History - CARS (03-21-2013)
- US History Requirement
  - Area D - 5 units waived by CARS (03-21-2013)
- D2 ECON 201 or ECON 202
- D3 PLSI 101 (also satisfies State Government Requirement)

## Upper Division General Education and University Electives (8-10)
- Theme I - substituted by ECE 490A&B - Senior Project I&II above
- Theme II - PHIL 316 (Ethics)
- Theme III - waived by CARS (03-21-2013)
- Gender, Race, and Ethnicity (GRE) (3-5)
- COMM 304 Recommended or pass GWAR exam (0)