Lower Division Core (24)

- ECE 160 - Introduction to Engineering (3) [ECE 1618+1628]
- CMPS 150 - Introduction to Unix (1) [see Q2S notes]
- CMPS 221 - Programming Fundamentals (grade of C- or better) [see Q2S notes]
- CMPS 223 - Data Structures and Algorithms (grade of C- or better) [see Q2S notes]
- CMPS 224 - Assembly Language Programming [CMPS 2240]
- CMPS 295 - Discrete Structures [CMPS 2120]

Upper Division Core (41)

- ECE 304 - Signals and Systems I [ECE 3040]
- ECE 307 - Analog Circuits [ECE 3070]
- ECE 320 - Digital Circuits [ECE 3200]
- CMPS 321 - Computer Architecture [CMPS 3240]
- ECE 322 - Digital Design with VHDL [ECE 3220]
- CMPS 360 - Operating Systems [CMPS 3600]
- ECE 420 - Embedded Systems [ECE 3250]
- ECE 490A - Senior Project I (3) [ECE 4910]
- ECE 490B - Senior Project II (3) [ECE 4928]

Upper Division Electives [select 1 course from each area below] (15)

- Signal Processing/Communication: ECE 422 or 423 or 425 or 426
- Robotics/Embedded Systems/Control: ECE 457 or 432
- Computer Vision/Image Processing: ECE 446 or 447

Cognate Requirements (58)

- MATH 201 or 231 - Calculus I (grade of C- or better) [see Q2S notes]
- MATH 202 or 232 - Calculus II (grade of C- or better) [see Q2S notes]
- MATH 203 or 233 - Calculus III (grade of C- or better) [see Q2S notes]
- MATH 204 or 234 - Calculus IV [see Q2S notes]
- MATH 230 or 330 - Linear Algebra [MATH 2610]
- MATH 340 - Probability Theory [MATH 3200]
- PHYS 221 - Classical Physics I - Mechanics (6) (grade of C- or better) [PHYS 2210]
- PHYS 222 - Classical Physics II - Thermo/EM (6) (grade of C- or better) [PHYS 2220]
- PHYS 223 - Optics and Modern Physics (6) [PHYS 2230]
- PHYS/ENGR 207 - Electric Circuits (grade of C- or better) [ENGR/ECE/PHYS 2070]
- PHIL 316 - Professional Ethics [PHIL 3318]

Additional Units (any university units) (0-1)

Foreign Language Requirement - 2 yrs. high school or 1 college course
- CSUB 101 - Introduction to CSUB (2)
- A1 - Recommend COMM 108 (grade of C- or better)
- A2 - ENGL 110 (grade of C- or better)
- A3 - Waived for Computer Engineering majors
- B1/B3 - Satisfied by PHYS 221
- B2/B3 - Waived for Computer Engineering majors
- B4 - Satisfied by MATH 201 or MATH 231 or higher with grade of C- or better
- C1
- C2, C4, or C5
- C3 - US History double-counts for C3 for Computer Engineering majors
- US History for American Institutions (AI) requirement
- D3/Government for AI requirement - Recommend PLSI 101
- Area D - 5 units waived for Computer Engineering majors
- D1, D2, D4, or D5 - Recommend ECON 201 or 202 (Economics is part of FE exam)
- Theme 1 - Met by completing ECE 490A & B
- Theme 2 - Satisfied by PHIL 316
- Theme 3 - Waived for Computer Engineering majors
- Gender, Race, and Ethnicity (GRE) (3-5)
- GWAR - Pass exam or get C- or better in course (COMM 304 - Tech. Writing recommended for course)

Advising Notes:

Q2S Transition Notes:

Programming sequence:
CMPS 2010 is CMPS 150+221+Half 222
CMPS 2020 is Half CMPS 222+All 223

Signals and Systems:
ECE 3040 is both ECE 304 and ECE 330

Calculus sequence:
Completion of MATH 2510-2530 or MATH 2310-2330 is equivalent to MATH 201-204 or MATH 231-234 (see advisor if partially completed calculus under quarters for a Q2S transition plan)

GE: Go to https://www.csub.edu/ge

Revision: April 7, 2017