Computer Engineering 2013-15 Advising Checklist
Quarter Units: 180   Core Units: 133

Lower Division Core (24)
- _____ ECE 160 – Introduction to Engineering (3)
- _____ CMPS 150 – Introduction to Unix (1)
- _____ CMPS 221 – Programming Fundamentals (grade of C- or better)
- _____ CMPS 223 – Data Structures and Algorithms (grade of C- or better)
- _____ CMPS 224 – Assembly Language Programming
- _____ CMPS 295 – Discrete Structures

Upper Division Core (41)
- _____ ECE 304 – Signals and 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)
- _____ ECE 490B – Senior Project II (3)

Upper Division Electives (select 1 course from each area below) (15)
- _____ Signal Processing/Communication: ECE 422 or ECE 423 or ECE 425 or ECE 426
- _____ Robotics/Embedded Systems/Control: ECE 457 or ECE 432
- _____ Computer Vision/Image Processing: ECE 446 or ECE 447

Cognate Requirements (58)
- _____ MATH 201 or 231 – Calculus I (grade of C- or better)
- _____ MATH 202 or 232 – Calculus II (grade of C- or better)
- _____ MATH 203 or 233 – Calculus III (grade of C- or better)
- _____ MATH 204 or 234 – Calculus IV
- _____ MATH 230 or 330 – Linear Algebra
- _____ MATH 340 – Probability Theory
- _____ PHYS 221 – Classical Physics I - Mechanics (6)
- _____ PHYS 222 – Classical Physics II - Thermodynamics and E&M (6)
- _____ PHYS 223 – Optics and Modern Physics (6)
- _____ PHYS/ENGR 207 – Electric Circuits
- _____ PHIL 316 – Professional Ethics

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

General Education and University Requirements (40-47)
- _____ 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 – 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 take course (COMM 304 – Technical Writing recommended for course)