

Electrical Engineering 2013-15 Advising Checklist
Quarter Units: 180 Core Units: 128

Lower Division Core (14)

- _____ ECE 160 – Introduction to Engineering (3)
- _____ CMPS 150 – Introduction to Unix (1)
- _____ CMPS 221 – Programming Fundamentals (grade of C- or better)
- _____ CMPS 224 – Assembly Language Programming

Upper Division Core (41)

- _____ ECE 304 – Signals and Systems I
- _____ ECE 307 – Analog Circuits
- _____ ECE 320 – Digital Circuits
- _____ ECE 330 – Signals and Systems II
- _____ ECE 332 – Fields and Waves
- _____ ECE 337 – Fundamentals of Power Systems
- _____ ECE 423 – Digital Communication
- _____ ECE 490A – Senior Project I (3)
- _____ ECE 490B – Senior Project II (3)

Upper Division Electives (select 3 courses) (15)

Choose from ECE 306, 322, 336, 420, 422, 424, 425, 426, 432, 433, 434, 446, 447, 457, 464

- _____
- _____
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Cognate Requirements (63)

- _____ 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
- _____ CHEM 211 – Principles of General Chemistry
- _____ 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) (0-7)

- _____

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 Electrical Engineering majors
- _____ B1/B3 – Satisfied by PHYS 221
- _____ B2/B3 – Waived for Electrical 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 Electrical Engineering majors
- _____ US History for American Institutions (AI) requirement
- _____ D3/Government for AI requirement – Recommend PLSI 101
- _____ Area D – 5 units waived for Electrical 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 Electrical Engineering majors
- _____ Gender, Race, and Ethnicity (GRE) (3-5)
- _____ GWAR – Pass exam or take course (COMM 304 – Technical Writing recommended for course)