Electrical Engineering 2016-18 Catalog Advising Checklist

Semester Units: 120  Core Units: 87

Name: ___________________________  ID #: ___________________________

Lower Division Core (12)

- ECE/ENGR 1618 - Introduction to Engineering I (2)
- ECE/ENGR 1628 - Introduction to Engineering II (2)
- CMPS 2010 - Progr. I: Programming Fundamentals (4) (grade of C- or better)
- ECE/ENGR/PHYS 2070 - Electric Circuits (4) (grade of C- or better)

Upper Division Core (32)

- ECE 3040 - Signals and Systems (4)
- ECE 3070 - Analog Circuits (4)
- ECE 3200 - Digital Circuits (4)
- ECE 3230 - Digital Communications (4)
- ECE 3320 - Fields and Waves (4)
- ECE 3340 - Control Systems (4)
- ECE 3370 - Power System Fundamentals (4)
- ECE 4910 - Senior Project I (2)
- ECE 4928 - Senior Project II (2)

Upper Division Electives [select 3 courses] (12) – At least one course must be at 4000-level

Choose from ECE 3220, 3250, 3280, 3380, 4220, 4240, 4250, 4260, 4330, 4370, 4460, 4470, 4570

Up to 4 units of ECE 377x, 477x, 4800, 4860, 4870, 4890 may also be used for elective credit

- ECE
- ECE
- ECE

Cognate Requirements (34)

- CHEM 1000 - General Chemistry (3)
- MATH 2310 or 2510 - Calculus I (4) (grade of C- or better)
- MATH 2320 or 2520 - Calculus II (4) (grade of C- or better)
- MATH 2530/2533 (or 2330* or both 2531+2532*) - Calculus III (4)
- MATH 2610 - Linear Algebra (4)
- MATH 3200 - Probability Theory (4)
- PHYS 2210 - Classical Physics I (4) (grade of C- or better)
- PHYS 2220 - Classical Physics II (4) (grade of C- or better)
- PHIL 3318 - Professional Ethics (3)

Additional Units (any university units) (0-6)

General Education and University Requirements (24-30)

First Year Seminar - Satisfied by ECE/ENGR 1618 and 1628

- A1 - COMM 1008 (3) (grade of C- or better)
- A2 - ENGL 1109 (3) (grade of C- or better)
- A3 - Waived for Electrical Engineering majors
- A4 - Satisfied by MATH 2310 or 2510 (or higher) with grade of C- or better
- B1/B3 - Satisfied by PHYS 2210
- B2/B3 - Waived for Electrical Engineering majors
- C1 - Arts (3)
- C2 - Humanities (3)
- US History for American Institutions (AI) requirement (3)
- Government for AI requirement - Recommend PLSI 1018 (3)
- Area D (1st course) - Recommend ECON 2018 or 2028 (3) (Econ is part of FE exam)
- Area D (2nd course) - 3 units waived for Electrical Engineering majors
- SELF - Recommend course that double-counts for another GE requirement (0-3)
- Junior Year Diversity Reflection (JYDR) (3)
- UD Area B - Not required for NSME majors
- UD Area C - Satisfied by PHIL 3318
- UD Area D - Waived for Electrical Engineering majors
- Capstone - Satisfied by ECE 4928
- GWAR - Pass exam or get C- or better in course (0-3)

* Note: Subwaiver needed for using MATH 2330 or both 2531+2532 instead of MATH 2530/2533. See department chair for form.