

Electrical Engineering 2016-18 Advising Checklist Semester Units: 120 Core Units: 87

Lower Division Core (12)

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

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)

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

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 – 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) (Economics is part of FE exam)
- Area D (2nd course) – 3 units waived for Electrical Engineering majors
- _____ SELF – Recommend taking 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)