

ELECTRICAL ENGINEERING

MAJOR REQUIREMENTS

Lower Division Requirements

- CHEM 6A (General Chemistry I)

- PHYS 2A (Mechanics)
- PHYS 2B (Electricity and Magnetism)
- PHYS 2C (Flu,Wav,Thrmdyn,Optics)
- PHYS 2D (Relativity & Quantum)

- MATH 20A (Calculus I)
- MATH 20B (Calculus II)
- MATH 20C (Calculus III)
- MATH 20D (Differential Equations)
- MATH 20E (Vector Calculus)
- MATH 18 (Linear Algebra)

- ECE 5 (Intro to ECE)
- ECE 15 (Engineering Computation)
- ECE 25 (Intro to Digital Design)
- ECE 30 (Intro to Computer Eng)
- ECE 35 (Intro to Analog Design)
- ECE 45 (Circuits & Systems)
- ECE 65 (Components & Circuits Lab)

Upper Division Requirements

BREADTH

- ECE 100 (Linear Electronic Systems)
- ECE 101 (Linear Systems Fundamentals)
- ECE 103 (Fundamentals/Devices & Matrls)
- ECE 107 (Electromagnetism)
- ECE 109 (Eng. Probability & Stats)

DEPTH

- ECE 181 (Physical Optics and Fourier Optics)
- ECE 182 (Electromagnetic Optics, Guided-Wave, and Fiber Optics)
- ECE 183 (Optical Electronics)
- One of: ECE 184 (Optical Information Processing and Holography), OR ECE 185 (Lasers and Modulators)

Design Course: ECE 111, 191, or 190

ELECTIVES

5 Technical

- _____
- _____
- _____
- _____
- _____

2 Professional

- _____
- _____

**2017-2018
PHOTONICS DEPTH**

PLEASE NOTE: All courses used to satisfy major requirements must be taken for a LETTER GRADE.

	FALL	WINTER	SPRING	SUMMER
Year 1				
Year 2				
Year 3				
Year 4				