

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 107 (Electromagnetism)
- ECE 109 (Eng. Probability & Stats)

DEPTH

- ECE 171A (Linear Control System Theory)
- ECE 174 (Intro to Linear and Nonlinear Optimization with Applications)
- ECE 175A (Elements of MI: Pattern Recognition & Machine Learning)
- One of: ECE 171B (Linear Control System Theory), OR
ECE 172A (Intro to Intelligent Systems: Robotics and Machine Intelligence), OR
ECE 175B (Elements of MI: Probabilistic Reasoning & Graphical Models)

- Design Course: ECE 111, 191, or 190

ELECTIVES

6 Technical

- _____ _____
- _____ _____
- _____ _____

2 Professional

- _____
- _____

**2017-2018
MACHINE LEARNING & CONTROLS 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				