Electrical Engineering
Catalog Year 2024-2025

Note: This is a recommended sequence and shifts are likely to occur due to prerequisite completion and course availability.

Semester One	Semester Two
CHEM 1127Q: General Chemistry I (4 credits)	PHYS 1501Q: Physics for Engineers (4 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
CSE 1010: Intro to Computing for Engineers (3 credits)	ENGR 1166: Foundations of Engineering (3 credits)
ENGL 1007: Writing and Composition (4 credits)	ECE 1401: Programming for Elec. Engineers (3 credits)
	Gen Ed (3 credits)
15 credits	**17 credits**

Semester Three	Semester Four
ECE 2001: Electrical Circuits (4 credits)	CSE 2301: Prin. & Prac. Of Digital Logic Des. (4 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	ECE 3101: Signals and Systems (3 credits)
MATH 2410Q: Elem. Differential Equations (3 credits)	ECE 3201: Electronic Circuit Des. & Analys. (4 credits)
PHYS 1502Q: Physics for Engineers (4 credits)	PHIL 1104: Philosophy & Social Ethics (CA 1) (3 credits)
	STAT 3345Q: Probability Models for Engin. (3 credits)
15 credits	**17 credits**

Semester Five	Semester Six
ECE 3001: EM Fields and Waves (3 credits)	ECE 3111: Systems Analysis (4 credits)
Restricted Elective (3 credits)	Restricted Elective (3 credits)
Restricted Elective (3 credits)	Restricted Elective (3 credits)
MATH 2210Q: Applied Linear Algebra (3 credits)	Gen Ed (3 credits)
Gen Ed (3 credits)	Gen Ed (3 credits)
15 credits	**16 credits**

Semester Seven	Semester Eight
ECE 4901: ECE Design I (2 credits)	ECE 4902: ECE Design II (3 credits)
ECE 4900W: Communic. Engineer. Solutions (1 credit)	Professional Requirement (3 credits)
Professional Requirement (3 credits)	Professional Requirement (3 credits)
Professional Requirement (3 credits)	Design Laboratory (3 credits)
Design Laboratory (3 credits)	Free Elective*
Gen Ed/Free Elective (3 credits)	
15 credits	**12+ credits**

*as needed to reach total degree credits
See reverse for important general education and major specific information.

Total Credits: 126