

Electrical Engineering
Catalog Year 2026-2027

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) (TOI 6)	PHYS 1501Q: Physics for Engineers (4 credits) (TOI 6)
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 or CSE 2050: Data Structures and OO Design (3 credits)
ENGR 1000: Orientation to Engineering (1 credit)	ECE 1401: Programming for Elec. Engineers (3 credits)
ENGL 1007: Writing and Composition (4 credits)	TOI Course (3 credits)
16 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) (TOI 6)	STAT 3345Q: Prob. Models for Engr. or MATH 3160: Probability (3 credits)
	TOI Course (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: Group 1 – Power and Energy ECE 3212* or ECE 3231* or ECE 3211** (3 credits)	Restricted Elective: Group 3 – Communications ECE 4111** or ECE 4112* (3 credits)
Restricted Elective: Group 2 – Circuits and Electronics ECE 3221* or ECE 4201** (3 credits)	Restricted Elective: Group 4 – Semicond. and Nanotech. ECE 4211** or ECE 4225* (3 credits)
MATH 2210Q: Applied Linear Algebra (3 credits)	TOI Course (3 credits)
TOI Course (3 credits)	TOI Course (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: Comm. Engineer. Solutions (1 credit)	Professional Requirement: 3000+ ECE Course (3 credits)
Professional Requirement: 3000+ ECE Course (3 credits)	Professional Requirement (3 credits)
Professional Requirement (3 credits)	Design Laboratory (3 credits)
Design Laboratory (3 credits)	Free Elective (3 credit)
Free Elective (3 credits)	
15 credits	15 credits

*Fall only | **Spring only

Total Credits: 126