

# B.S. in Electrical Engineering



The Electrical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

## Major Program Guide For: B.S. in Electrical Engineering Suggested Course Sequence

- Total for Degree: 126 Credit Hours

Freshman Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Hours	Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Hours
ENGL	101	Composition I	3	EE	200	Computer Utilization	3
MATH	153	Calculus I* (C2)	4	MATH	255	Calculus II*	4
CHEM	139	General Chemistry (C5)	4	PHYS	230	General Physics I*	4
ENGR	199	Intro. Eng/Prac/Prin. I*	3	COMM	201	Communications (C3)	3
Wellness (C4)			3	Perspective			3
Sophomore Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Hours	Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Hours
EE	201	Network Theory I*	3	ENGL	202	Composition II (C1)	3
EE	221	Logic Systems Design I*	3	EE	202	Network Theory II*	3
EE	211	Instrumentation & Networks Lab*	1	EE	212	Logic & Networks Lab*	1
ENGR	200	Eng/Prac/Prin. II*	3	MATH	256	Calculus III*	4
MATH	320	Ord. Diff. Equations*	3	PHYS	310	Modern Physics*	3
PHYS	231	General Physics II*	3				
Junior Year							
Fall				Spring			
Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Hours	Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Hours
EE	311	Systems & Electronics Lab*	1	EE	312	Electronic Devices Lab*	1
EE	321	Electromagnetic Fields*	3	EE	322	Electromagnetic Waves*	3
EE	331	Fund. Electronics & Semiconductors	3	EE	332	Electronics*	3
EE	351	System Analysis I*	3				
MATH	370	Probability & Statistics I*	3	ENGR	350	Eng/Prac/Prin. III*	3
Perspective			3	PHYS	322	Optics & Materials*	3
Senior Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Hours	Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Hours
ENGR	400	Engineering Capstone I*	3	ENGR	450	Engineering Capstone II*	3
EE	411	Analog & Digital Communication*	3	EE	436	Optical Fiber Communications*	3
EE	425	Foundations of Optical Engineering*	3	EE	427	Foundations of Optical Imaging*	3
EE	465	Foundations of Laser Electronics*	3	Perspective			3
Perspective			3	Perspective			3
Perspective			3				

\*Indicates prerequisite or coerequisite requirements.