B.S. IN ELECTRICAL ENGINEERING

Code	Title	Credits
Major in Electrical Engineering (B.S.)		
COS 205	Scientific Computing	3
ENR 160	Introduction to Engineering	3
ENR/PHY 260	Careers in Engineering and Physics Seminar	1
ENR 306 & ENR 307	Digital Logic and Design and Digital Logic and Design Lab	4
ENR 316 & ENR 317	Analog Circuitry and Design and Analog Circuitry & Design Lab	4
ENR/PHY 320	Mathematical Methods in Physics and Engineering	4
ENR 326	Circuit Analysis & Simulations	4
ENR 336	Signals and Systems	4
ENR/PHY 352	Computer Methods in Physics and Engineering	3
ENR/PHY 353	Computer Methods in Physics and Engineering Lab	1
ENR 424 & ENR 425	Electronic Materials and Devices and Electronic Materials and Devices Laboratory	4
ENR 436 & ENR 437	Microprocessors and Microprocessors Lab	4
ENR 446 & ENR 447	Control Systems and Control Systems Lab	4
ENR 465	Engineering Design Seminar	1
ENR 490	Engineering Design Project	3
MAT 124M	Calculus 1 [1]	4
MAT 125	Calculus 2	4
MAT 223	Multivariable Calculus	3
MAT 224	Differential Equations with Linear Algebra	4
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
PHY 400	Electricity and Magnetism	4
Choose one course from Optical Science:		4
PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Laser Fundamentals and Laser Fundamentals Lab	

Code	Title	Credits
Major		86
General Education		40-41
Total Credits		**126-127**

[1] Students may test into this course via successful completion of the Math and Computer Science department placement exam or by completing MAT 123M and the Math and Computer Science department placement exam requirements.
Courses whose number is followed by a letter fulfill a General Education requirement.
Students may not declare a B.S. in Electrical Engineering and a Minor in Engineering.