B.S. IN ELECTRICAL ENGINEERING

Code	Title	Credits
Major in Electrical Engineering (B.S.)		
COS 111	Introduction to Programming	4
ENR 160	Introduction to Engineering	2
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 321	Statistical Methods in Engineering	2
ENR 322	Mathematical Methods in Physics and Engineering	2
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	4
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 of the following Optics Science courses:		4
PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Laser Fundamentals and Laser Fundamentals Lab	

Code	Title	Credits
Major		87
General Education *		40-48
Total Credits		**127-135**

[1] Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.

* 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.