

ELECTRICAL ENGINEERING (BS)

Suggested Sequence of Courses for a Bachelor of Science Degree in Electrical Engineering

Course	Title	Hours
Freshman Year		
First Semester		
ENGR-1200	Introduction to Engineering	2
CHEM-1200	General Chemistry I Lecture	3
CHEM-1201	General Chemistry I Laboratory	1
MATH-1300	Calculus I	4
PHYS-2100	Classical Physics I	3
PHYS-2101	Classical Physics I Lab	1
ENGL-1010	English Composition	3
GNST-1000	BC Experience	1
Hours		18
Second Semester		
MATH-1350	Calculus II	4
PHYS-2110	Classical Physics II	3
PHYS-2111	Classical Physics II Lab	1
THEO-1100	Introduction to Theology	3
PHIL-1750	Principles of Nature	3
EENG-2010	Introduction to Digital Electronics	2
EENG-2020	Digital Electronics Laboratory	1
Hours		17
Sophomore Year		
First Semester		
EENG-2060	Linear Circuit Analysis I	3
EENG-3060	Circuits Laboratory I	1
ENGR-3150	Statistical Analysis of Data	3
MATH-2300	Calculus III	4
THEO-2000	Christian Moral Life	3
EXSC-1115	Wellness for Life	1
Hours		15
Second Semester		
EENG-3130	Linear Circuit Analysis II	3
CSCI-2300	Programming for Scientists & Engineers	3
MATH-3100	Differential Equations	3
MATH-2500	Linear Algebra	3
EENG-4520	Embedded Systems	2
EENG-4530	Embedded Systems Laboratory	1
Hours		15
Junior Year		
First Semester		
EENG-3140	Signals & Systems	3
EENG-3160	Electric & Magnetic Fields	3
EENG-3210	Electronics I	3
EENG-3080	Electronics Laboratory I	1

PHIL-3250	Ethics	3
Technical Elective		3
Hours		16
Second Semester		
EENG-4090	Applied Electromagnetics	3
EENG-4210	Electronics II	3
EENG-3090	Electronics Laboratory II	1
EENG-4050	Control Systems I	3
Faith Foundation		3
EENG-4060	Control Systems Laboratory	1
Mathematics or Science Electives		3
Hours		17
Senior Year		
First Semester		
EENG-4600	Electrical Engin Design I	3
Technical Elective		3
ENGR-3170	Engineering Economy & Society	3
Historical Foundation		3
EXSC Fitness Course		1
Foreign Language		4
Hours		17
Second Semester		
EENG-4610	Electrical Engin Design II	3
EENG-4010	Electric Drives	2
Technical Elective		3
Aesthetic Foundation		3
Foreign Language		4
EENG-4020	Electric Drives Lab	1
Hours		16
Ninth Semester		
Technical Elective		3
Senior Comp. Examination		0
Historical Foundation		3
Philosophical Inquiry		3
Aesthetic Experience		3
Hours		12
Total Hours		143