

Recommended Course Plan: ENPMED Electrical Engineering

Year 1			Spring			Summer		
ENG202	Advanced Academic English	3	BIO201	General Biology I	3	—	Liberal Arts & Sciences Elective	3
PHY201	Electricity & Magnetism	3	BIO201B	General Biology I Lab	1	—	Liberal Arts & Sciences Elective	3
MTH201	Calculus III	3	MTH304	Differential Equations	3	MTH206	Calculus IV	3
MTH207	Discrete Structures I	3	COE211	Computer Programming	4			
GNE212	Engineering Mechanics	3	MEE211	Engineering Graphics	1			
COE201	Computer Proficiency	1	CHM201	Chemical Principles	3			
			—	Liberal Arts & Sciences Elective	3			
		16			18			9
Year 2			Spring			Summer		
CHM311	Organic Chemistry I	3	ELE401	Electronics I	3	—	Liberal Arts & Sciences Elective	3
COE321	Logic Design	3	ELE411	Electromagnetic Fields	3	COM203	Art of Public Communication	3
GNE303	Engineering Ethics	2	ELE430	Signals and Systems	3	INE320	Engineering Economy	3
ELE391	Mathematical Methods in Electrical Engineering	3	COE323	Microprocessors	3			
ELE300	Electric Circuits	3	BIO260	Human Anatomy and Physiology	3			
ELE303	Electrical Circuits Lab	1	—	ELE Elective 1	3			
GNE331	Probability and Statistics	3						
		18			18			9
Year 3			Spring			Summer		
ELE501	Microelectronics	3	COE546	Machine Learning	3	ELE498	Professional Experience	6
ELE413	Electromagnetic Waves	3	ELE420	Electromechanics	3			
ELE442	Control Systems	3	ELE538	Noise in Communication Systems	3			
ELE443	Control Systems Lab	1	ELE540	Communication Systems Lab	1			
BIO321	Genetics	3	—	ELE Elective 2	3			
ELE537	Communication Systems	3	—	ECE Elective 1	3			
COE324	Microprocessors Lab	1	ELE402	Electronics I Lab	1			
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		18			18			6

Year 4			Spring			Summer (recommended)		
BCH300	Essentials of Biochemistry	3	ELE423	Electric Machines Lab	1	PSY 201	Introduction to Psychology	3
ELE595	Capstone Design Project I	3	ELE593	ELE Application	3	SOC 201	Sociology	3
ELE493	Professionalism in Engineering	3	—	ELE Elective 3	3			
ELE422	Power Systems	3	—	ELE Elective 4	3			
—	ECE Elective 2	3	—	ECE Elective 3	3			
COE521	Embedded Systems	3	ELE596	Capstone Design Project II	3			
			GNE301	Professional Communication	2			
		18			18			6

Total 172