

Recommended Course Plan: ENPMED Mechatronics Engineering

Year 1			Fall			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	GNE331	Probability and Statistics	3			
MTH201	Calculus III	3	MTH301	Linear Algebra	3	MTH206	Calculus IV	3			
MTH207	Discrete Structures I	3	COE211	Computer Programming	4						
CIE200	Statics	3	MTH304	Differential Equations	3						
COE201	Computer Proficiency	1	MEE211	Engineering Graphics	1						
			CHM201	Chemical Principles	3						
		16			18			6			

Year 2			Fall			Spring			Summer		
MEE321	Material Properties & Processes	3	ELE401	Electronics I	3	—	Liberal Arts & Sciences Elective	3			
COE321	Logic Design	3	ELE402	Electronics I Lab	1	COM203	Art of Public Communication	3			
GNE301	Professional Communication	2	COE313	Data Structures lab	1	—	Liberal Arts & Sciences Elective	3			
COE312	Data Structures	3	ELE430	Signals and Systems	3						
ELE300	Electric Circuits	3	COE323	Microprocessors	3						
ELE303	Electrical Circuits Lab	1	MEE320	Strength of Materials	3						
CHM311	Organic Chemistry I	3	COE322	Logic Design Lab	1						
			MEE241	Dynamics	3						
		18			18			9			

Year 3	Fall		Spring		Summer
BIO321	Genetics	3	MEE422	Mechanical Engineering Design	3
ELE442	Control Systems	3	MCE301	Electromechanics	3
ELE443	Control Systems Lab	1	—	MCE Technical Elective 1	3
COE324	Microprocessors Lab	1	MEE341	Kinematics of Machines	3
INE320	Engineering Economy	3	BIO260	Human Anatomy and Physiology	3
MEE311	Fluid Mechanics	3	BCH300	Essentials of Biochemistry	3
MEE312	Fluid Mechanics Lab	1			
MEE351	Computer Aided Design	3			
		18			6

Year 4

Fall

—	MCE Technical Elective 2	3
—	Liberal Arts & Sciences Elective	3
MCE591	Capstone Design I	3
ELE501	Microelectronics	3
MEE301	Thermodynamics	3
MCE410	Mechatronics System Design I	3
		18

Spring

—	MCE Technical Elective 3	3
—	MCE Technical Elective 4	3
COE546	Machine Learning	3
MCE411	Mechatronics System Design II	3
MCE592	Capstone Design II	3
MCE302	Electric Machines Lab	1
GNE303	Engineering Ethics	2
		18

Summer
(recommended)

PSY 201	Introduction to Psychology	3
SOC 201	Sociology	3
		6

Total

172