

MECHANICAL ENGINEERING PROGRAM (2020 - 2021)

Fall of First Year (16 credits)			Spring of First Year (16 credits)		
MATH 1210	Calculus I	5	MATH 1220	Calculus II	5
CHEM 1210	Principles of Chemistry I	4	PHYS 2210	Physics for Scientists and Engineers I	4
CHEM 1215	Principles of Chemistry I Lab	1	PHYS 2215	Physics for Scientists and Engineers I Lab	1
ENGL 1010	Introduction to Academic Writing	3	ENGL 2010	Intermediate Writing/Academic Writing & Research	3
ENGR 1000	Introduction to Engineering	3	ENGR 1030	Engineering Programming	3
Fall of Second Year (17 credits)			Spring of Second Year (15 credits)		
MATH 2250	Differential Equations and Linear Algebra	4	MATH 2210	Calculus III	3
PHYS 2220	Physics for Scientists and Engineers II	4	ENGR 2030	Engineering Dynamics	3
PHYS 2225	Physics for Scientists and Engineers II Lab	1	ENGR 2140	Mechanics of Materials	3
ENGR 2010	Engineering Statics	3	ECE 2210	Fundamentals of Electric Circuit Analysis	3
ENGR 2160	Introduction to Materials Science and Engineering	3	ENGR 2450	Computational Methods for Engineering Analysis	3
Health ¹	HLTH 1100 or PES 1097	2			
Fall of Third Year (15 credits)			Spring of Third Year (14 credits)		
ENGR 2300	Engineering Thermodynamics	3	ME 3210	Manufacturing Processes for Engineers	3
ME 3010	Linear Systems	3	ME 3320	Heat Transfer	3
ME 3140	Machine Design	3	ME 3335	Thermal/Fluid Experimentation	2
ME 3310	Fluid Mechanics	3	ME 3xxx	3000 level Elective	3
Biology	Choose from the GE approved Biology list	3	COMM1020	Public Speaking	3
Fall of Fourth Year (16 credits)			Spring of Fourth Year (17 credits)		
ME 4010	Automatic Controls	3	ME 4015	Control and Vibration Experimentation	2
ME 4410	Computer Aided Engineering	3	ME 4820	ME Capstone II	3
ME 4510	Mechanical Engineering Seminar	1	ME 4xxx	4000 level Elective	3
ME 4810	ME Capstone I	3	HIST/POLS ²	Choose one from HIST/POLS list	3
ME/Technical	Choose from ME/Technical Electives list	3	PHIL 2050	Ethics and Values	3
Fine Arts	Choose from the GE approved Fine Arts list	3	COMM 2110	Interpersonal Communication	3

¹ HLTH 1000 Personal Health and Wellness or PES 1097 Fitness for Life

² Choose one from HIST 1700, 1740, 2700, 2710, or POLS 1000, 1100