

Mechanical Engineering Curriculum**Freshman Year**

FE 1100 Study & Careers in Eng.	(1)		ME 1720 Intro to Engineering Design	(3)	
Chem 1305 General Chemistry	(4)		Math 1215 Calculus for Engineers II <i>Math 1160; and 1211 or 1214, or by placement exam</i>	(4)	
Chem 1319 General Chemistry Lab <i>*Chem 1310, *Chem 1100</i>	(1)		Phys 1135 Engineering Physics I <i>Math 1214 or 1211</i>	(4)	
Math 1214 or 1211 Calculus for Engineers I <i>Math 1160; and 1120 or 1140, or by placement exam</i>	(4)		GenEd Group 1	(3)	
Engl 1120 Exposition and Argumentation	(3)		GenEd Group 2	(3)	
Hist 1200(2), 1300(1), 1310(1), or Pol Sci 1200(2) (**GenEd group 1 or 2)	(3)				

Sophomore Year

CE 2200 Statics <i>Phys 1135, Math 1215, *Math 2222</i>	(3)		Comp Sci 1972 /1570 Programming Lecture <i>*Comp Sci 1982, Math 1214 or 1211</i>	(2)	
Math 2222 Calc w/Analytic Geometry III <i>Math 1215</i>	(4)		Comp Sci 1982 /1580 Programming Lab <i>*Comp Sci 1972</i>	(1)	
Phys 2135 Engineering Physics II <i>Phys 1135, Math 1215</i>	(4)		ME 2519 Thermodynamics <i>Math 1214 or 1211, 1215, & 2222, Phys 1135</i>	(3)	
ME 1761 CAD <i>ME 1720; Math 1211 or 1214</i>	(1)		ME 2360 Dynamics <i>CE 2200, Math 2222</i>	(3)	
ME 2653 Intro to Manufacturing Processes <i>*ME 1761, ME 1720, Phys 1135</i>	(3)		Math 3304 Elementary Differential Eqns <i>Math 1215</i>	(3)	
			ME 2761 Intro to Design <i>ME 1720, ME 1761, ME 2653, Math 1214 or 1211, Phys 1135, *CE 2200</i>	(2)	
			Mt Eng 2110 Metallurgy for Engineers <i>*Chem 1310</i>	(3)	

Junior Year

ME 3313 Machine Dynamics <i>CSci, ME 2360, Math 1214 or 1211, 1215, & 2222, Phys 1135</i>	(3)		ME 3411 Model Analysis of Dyn Systems <i>CSci, ME 2360, Math 1214 or 1211, 1215, 2222, & 3304, Phys 1135 & 2135</i>	(3)	
ME 3521 Applied Thermodynamics <i>ME 2519</i>	(3)		ME 3525 Heat Transfer <i>CSci, Math 3304, ME 2519</i>	(3)	
EE 2800 Electrical Circuits <i>Phys 2135, Math 3304</i>	(3)		ME 3131 Thermofluid Mechanics I <i>ME 2519</i>	(3)	
CE 2210 Mechanics of Materials <i>CE 2200</i>	(3)		ME 4840 Mech Instrumentation <i>Math 3304, ME 2519, Phys 2135</i>	(2)	
CE 2211 Materials Testing <i>*CE 2210</i>	(1)		ME 3708 Machine Design I <i>ME 2653, Met Eng 2110, CE 2210, *ME 2761</i>	(3)	
Math 3108, Stat 3113, Stat 3115, or 5xxx Math/Stat	(3)		Engl 1160, Engl 3560, or Sp&MS 1185	(3)	

Senior Year

ME 4842 Mechanical Engineering Systems <i>ME 4840, 3521, 3131, 3525, & 3313</i>	(2)		Eng Mgt 1100 Practical Conc for Tech Mgr	(1)	
ME 4479 Auto Control of Dynamic Systems <i>ME 3411</i>	(3)		Eng Mgt 1210 Econ Analysis of Eng Proj <i>Math 1214</i>	(2)	
Mech Eng Technical Elective	(3)		ME 4761 Engineering Design <i>ME *3708, *3525, *3131, & *4479</i>	(3)	
Technical Elective	(3)		ME 4480 Control System Lab <i>*ME 4479</i>	(1)	
GenEd Elective	(3)		Mech Eng Technical Elective	(3)	
**GenEd Group 1 or 2	(3)		Breadth Elective	(3)	



C or better required

* Preceded or Accompanied by

C or better required in pre-requisite

General Education requirements for Humanities, Arts, and Social Sciences (15 credit hours) Choose courses from History, Art, Music, Theater, English and Technical Communication, Philosophy, Political Science, Psychology, Economics, Etymology, or Foreign Languages:

Group 1: 6 credits in the Humanities and Fine Arts, selected from two specific disciplines: History 1300*, 1310*, Art 1150, Music 1150, Theater 1150, and English 1211, 1212, 1221, 1222, and 1231 (or Non-prerequisite Literature).

Group 2: 6 credits in the Behavioral and Social Sciences, selected from two specific disciplines:

History 1100, 1200*, 2110, Philosophy 1105, 1115, Political Science 1200*, Psychology 1101, Econ 1100 or 1200, Foreign Languages 1101, 1102, and 1180.

GenEd Elective: 3 additional credits from any of these Humanities, Art, and Social Sciences disciplines

* Fulfills Williams Law