

# Mechanical Engineering Curriculum

## Freshman Year

FE 1100 Study & Careers in Eng.	(1)		ME 1720 Intro to Engineering Design	(3)		
Chem 1310 General Chemistry	(4)		Math 1215 Calculus for Engineers II Math 1160; and 1208 or 1214, or by placement exam	(4)		
Chem 1319 General Chemistry Lab *Chem 1310, *Chem 1100	(1)		Phys 1135 Engineering Physics I Math 1208 or 1214	(4)		
Math 1214 Calculus for Engineers I Math 1160; and 1120 or 1140, or by placement exam	(4)		Econ 1100 or 1200	(3)		
Engl 1120 Exposition and Argumentation	(3)		Hum or Soc Sci Elective	(3)		
Hist 1200, 1300, 1310, or Pol Sc 1200	(3)					

## Sophomore Year

Comp Sci 1970, 1971, 1972, or 1570 Programming Lecture	(2)		ME 2761 Intro to Design ME 1720, ME 2653, Math 1214 or 1208, Phys 1135, *CE 2200	(3)		
Comp Sci 1980, 1981, 1982, or 1580 Programming Lab	(1)		ME 2519 Thermodynamics CSci, Math 1214/1215/2222, Phys 1135	(3)		
CE 2200 Statics Phys 1135 or 1111, *Math 2222	(3)		ME 2360 Dynamics CE 2200, Math 2222	(3)		
Math 2222 Calc w/Analytic Geometry III Math 1215 or 1221	(4)		Math 3304 Elementary Differential Eqns Math 2222	(3)		
Phys 2135 Engineering Physics II Phys 1135, Math 1221 or 1215	(4)		Mt Eng 2110 Metallurgy for Engineers *Chem 1310	(3)		
ME 2653 Intro to Manufacturing Processes ME 1720	(3)					

## Junior Year

ME 3313 Machine Dynamics CSci, ME 2360, Math 1214/1215/2222/22, Phys 1135	(3)		ME 3411 Model Analysis of Dyn Systems CSci, ME 2360, Math 1214/1215/2222/3304, Phys 1135/2135	(3)		
ME 3521 Applied Thermodynamics ME 2519	(3)		ME 3708 Machine Design I ME 2653, CE 2210, MtEng 2110, *ME 2761	(3)		
EE 2800 Electrical Circuits Phys 2135, Math 3304 or 3329	(3)		ME 3525 Heat Transfer CSci, Math 3304, ME 2519	(3)		
CE 2210 Mechanics of Materials CE 2200	(3)		ME 3131 Thermofluid Mechanics I ME 2519	(3)		
CE 2211 Materials Testing *CE 2210	(1)		ME 4840 Mech Instrumentation Math 3304, ME 2519, Phys 2135	(2)		
CSci 3200, Math 3103, Math 3108, Stat 3113, Stat 3115, or 4xxx or CSci/Math/Stat	(3)		Engl 1160, Engl 3560, or Speech 1185	(3)		

## Senior Year

ME 4842 Mechanical Engineering Systems ME 4840/3521/3131/3525/3313	(2)		Eng Mgt 1100 Practical Conc for Tech Mgr	(1)		
ME 4479 Auto Control of Dynamic Systems ME 3411	(3)		Eng Mgt 1210 Econ Analysis of Eng Proj Math 1215	(2)		
Mech Eng Technical Elective	(3)		ME 4761 Engineering Design ME *3708/*3525/*3131/*4479	(3)		
Free Elective	(3)		ME 4480 Control System Lab *ME 4479	(1)		
Literature Elective	(3)		Mech Eng Technical Elective	(3)		
Adv Hum or Soc Sci Elec	(3)		Free Elective	(3)		

C or better required

\* Preceded or Accompanied by

*C or better required in pre-requisite*