

Mechanical Engineering

FIRST TERM

Credit	Class
4	MATH 0221 Calculus I
3	CHEM 0150 (previously Chem 0111) General Chem Eng 1
4	PHYS 0150 Phys for Eng 1
3	ENGR 0017 Intro to Eng Analysis
3	ENGCMP 0005 Composition 1 (<i>or a 650 or better on reading writing portion of SAT</i>)
0	ENGR 0081 Freshman Seminar 1
17	TOTAL

THIRD TERM

Credit	Class	Pre/Co Req
4	MATH 241 Calculus III	Calc II (C or better)
3	MATH 1181 Linear Algebra	Calc II
3	ENGR 0022 Materials	Calc II, Phys for Eng 1
3	ENGR 0132 Statics	Phys for Eng 1, <i>Calc II</i>
3	ME 0024 Intro ME Design	Intro Eng Analysis
0	ME 1085 Dept Seminar	
16	TOTAL	

FIFTH TERM

Credit	Class	Pre/Co Req
3	ME 0071 Fluids	Calc II, <i>Diff Eq</i>
3	ENGR 0152 Rigid Body Dynamics	Calc II, Statics
3	ME 1026 Mechanical Design I	Statics, Mech of Matls, Materials
3	Engineering Elective	
3	WOK (S&C, GH&C, A&CE)	
0	ME 1085 Dept Seminar	
15	TOTAL	

SEVENTH TERM

Credit	Class	Pre/Co Req
3	ME 1046 Measurements 2	Meas 1
3	ME 1054 Heat & Mass Transf	Intro Thermo, <i>Fluids</i>
3	ME 1095 Professional Practices	Mechanical Design 2
3	Dyn System Elective	
3	WOK (S&C, GH&C, A&CE)	
0	ME 1085 Dept Seminar	
15	TOTAL	

SECOND TERM

Credit	Class	Pre/Co Req
4	MATH 0231 Calculus II	Calc I (C or better)
3	CHEM 0151 with Lab (previously Chem 0115) General Chem Eng 2	Chem Eng 1
4	PHYS 0152 Phys for Eng 2	Phys for Eng 1, <i>Calc II</i>
3	ENGR 0018 Intro Eng Computing	Intro to Eng Analy, <i>Calc I</i>
3	WOK (S&C, GH&C, A&CE)	
0	ENGR 0082 Fresh. Seminar 2	
17	TOTAL	

FOURTH TERM

Credit	Class	Pre/Co Req
3	MATH 1271 Differential Eq's	Calc III
3	ENGR 0142 Mechanics of Mat'ls	Statics, Calc II
3	EE 0031 Linear Circuits	Calc II, Phys for Eng 2
3	ME 0040 Mat'l & Mfging	<i>Materials</i>
3	ME 0052 Intro Thermo	Phys for Eng 1, Chem I, <i>Calc III</i>
3	COMMRE 0052 Public Speaking	
0	ME 1085 Dept Seminar	
18	TOTAL	

SIXTH TERM

Credit	Class	Pre/Co Req
3	ME 1013 Dynamic Systems	Linear Alg, Intro to Eng Computing, Circuits
3	ME 1027 Mechanical Design 2	Intro ME Design, Mechanical Design 1
3	ME 1044 Measurements I	Circuits, Diff Eq, <i>Dynamic Systems</i>
3	ME 1053 Applied Thermo	Intro Thermo
3	WOK (S&C, GH&C, A&CE)	
0	ME 1085 Dept Seminar	
15	TOTAL	

EIGHTH TERM

Credit	Class	Pre/Co Req
3	ME 1099 Senior Project	Prof. Practices
3	ME 1071 Applied Fluids	Fluids
3	ME Tech Elective	
3	ME Tech Elective	
3	WOK (S&C, GH&C, A&CE)	
0	ME 1085 Dept. Seminar	
15	TOTAL	

Notes: 1) *italic lettering means co-req*

2)* students have a minimum of 128 credits to graduate.

Students who do not need to take ENGCMP 0005 (SAT-V greater than 650) will need to take another 3 credits to meet this requirement.

Mechanical Engineering

ENGINEERING ELECTIVES

Course	Pre/Co Req	Typical Term
ENGR 1103 Engineering Economics	Sophomore or beyond	Fall, Spring, Summer
ENGR 1115 Engineering Leadership	TBD	Fall
CHE 0214 Intro to Chemical Process Design	Gen Chem Eng 2 Calc II, Phys for Eng 1	Spring
CE 1105 Materials of Construction	<i>Mech of Matl's</i>	Spring
CE 1330 Intro to Structural Analysis	CE 0110 (or Engr 0018 and permission)	Fall
CE 1503 Intro to Environmental Engineering	Gen Chem Eng 2	Fall
CE 1610 Engineering & Sustainable Development		Spring
CE 1811 Principles of Soil Mechanics	Mech of Matl's	Fall
EE0445 Programming & Intro to Data Structures	Calc I, Intro to Eng Computing	Fall
EE 1552 Signals & Systems	Linear Circuits, Calc II	Fall
EE 1673 Control Systems	Calc III, <i>Diff EQ</i> , JME-BSE	Fall
EE 1177 Measurement & Industrial Control	TBD Intro to Eng Comp, Linear Circuits	Spring
EE 1771** Electric Machines	Linear Circuits	Spring Sum

DYNAMIC SYSTEMS ELECTIVES

Course	Pre/Co Req	Typical Term
ME 1061 Off Road Vehicle Dynamics	Intro to ME Design, Mech Design 2	Fall
EE 1673 Control Systems	Calc III, <i>Diff EQ</i> , JME-BSE	Fall
EE 1177 Measurements and Industrial Controls	Intro to Eng Comp, Linear Circuits	Spring
EE 1771 Electric Machines	Linear Circuits	Spring Sum

NOTE: Courses taken as a Dynamic Systems Elective cannot also be counted as an Engineering Elective

ME TECHNICAL ELECTIVES

Course	Pre/Co Req	Typical Term
ME 1056 Energy	Applied Thermo	Fall
ME 1059 Heating, Ventilation, & Air Conditioning	Applied Thermo, <i>Heat & Mass Trans</i>	Fall
ME 1172 CADD/CAE	Intro ME Design	Spring
ME 1173 Finite Element Methods	Intro Eng Comp, Diff Eq, Mech Design I	Spring
CHE 0510 Intro to Computational Fluid Dynamics	ME 0071 Fluids	Spring

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