

<b>1st Semester (Fall)</b>		<b>14 credits</b>	<b>Prerequisites/Co-requisites</b>
COMP 208	Computers in Engineering	3	P - MATH 140, MATH 141
MATH 262	Intermediate Calculus	3	P - MATH 141, MATH 133
MECH 201	Introduction to Mechanical Engineering	2	-
MECH 290	Design Graphics for Mechanical Engineering	3	-
EC	Elective - 1	3	-
<b>2nd Semester (Winter)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
FACC 100	Introduction to the Engineering Profession	1	-
MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262
MATH 264	Advanced Calculus for Engineers	3	P - MATH 262 / C - MATH 263
MECH 210	Mechanics 1	2	-
MECH 262	Statistics and Measurement Laboratory	3	-
MIME 260	Materials Science and Engineering	3	-
<b>3rd Semester (Fall)</b>		<b>16 credits</b>	<b>Prerequisites/Co-requisites</b>
CCOM 206	Communication in Engineering	3	-
MATH 271	Linear Algebra and Partial Differential Equations	3	P - MATH 263, MATH 264
MECH 220	Mechanics 2	4	P - MECH 210, MATH 262 / C - MATH 263
MECH 240	Thermodynamics 1	3	-
EC	Elective - 2	3	-
<b>4th Semester (Winter)</b>		<b>17 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 207	Solid Mechanics	4	P - MECH 210 or CIVE 205
MECH 292	Conceptual Design	3	P - MECH 289 or MECH 290 / P or C - CIVE 207
MECH 315	Mechanics 3	4	P - MECH 220, MATH 271 / C - CIVE 207
MECH 341	Thermodynamics 2	3	P - MATH 264, MECH 240
MECH 360	Principles of Manufacturing	3	P - MECH 289 or MECH 290 / P or C - CIVE 207
<b>5th Semester (Fall)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
MATH 317*	Numerical Analysis	3	P - MATH 263
MECH 314	Dynamics of Mechanisms	3	P - MECH 220
MECH 321	Mechanics of Deformable Solids	3	P - CIVE 207
MECH 331	Fluid Mechanics 1	3	P - MECH 210 / C - MECH 220, MECH 240, MATH 271
MECH 383	Applied Electronics and Instrumentation	3	P - MECH 262, MATH 263
<b>6th Semester (Winter)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
FACC 300	Engineering Economy	3	-
MECH 346	Heat Transfer	3	P - MECH 240, MECH 331, MATH 271
MECH 393	Machine Element Design	3	P - MECH 289 or 290, CIVE 207 / P or C - MECH 260 or 360, MECH 292, MECH 314, MIME 260
MECH 412	System Dynamics and Control	3	P - MECH 309 or MATH 317, MECH 315 / C - MECH 331
ECSE 461	Electric Machinery	3	-
		<b>14 credits</b>	<b>Prerequisites/Co-requisites</b>
MECH 362	Mechanical Laboratory 1	2	P - MECH 262
MECH 430	Fluid Mechanics 2	3	P - MECH 240, MECH 331
MECH 463D1	Mechanical Engineering Project	3	P - CCo 7.32 0 0 7.32 57.72 249.36 Tm [(T)-11(ec)-7(hni)-6(c)-7(al)-6( C)2(on

		Credits	Prerequisites/Co-requisites
MECH 497	Value Engineering	3	P - MECH 493 and 45 credits completed
MECH 498	Interdisciplinary Design Project 1	3	-
MECH 499	Interdisciplinary Design Project 2	3	-
MECH 513	Control Systems	3	P - MECH 412 or MECH 419
MECH 529	Discrete Manufacturing Systems	3	P - Permission of instructor
MECH 530	Mechanics of Composite Materials	3	C - MECH 321
MECH 532	Aircraft Performance, Stability and Control	3	P - MECH 412 / MECH 419, MECH 533
MECH 535	Turbomachinery and Propulsion	3	P - MECH 331
MECH 536	Aircraft Structures	3	P - MECH 321
MECH 541	Kinematic Synthesis	3	P - MECH 309 or MATH 317
MECH 543	Design with Composite Materials	3	P - MECH 530
MECH 544	Processing of Composite Materials	3	P - MECH 530
MECH 553	Design and Manufacture of Microdevices	3	-
MECH 557	Mechatronic Design	3	P - ECSE 461, MECH 383, MECH 412 / MECH 419
MECH 563	Biofluids and Cardiovascular Mechanics	3	
or CHEE 563	Biofluids and Cardiovascular Mechanics	3	
MECH 565	Fluid Flow and Heat Transfer Equipment	3	