

Mechanical Engineering Curriculum

2012-2014 Catalog (With Common Course Numbering Conversions)

			Fall		Spring	
Freshman Year	CHMY 141 (CHEM 131)	College Chemistry I			4	
	<i>Take one of the following:</i>					
	CLC 101US	College Seminar	3			
	COM 110 US	Public Communication	3			
	WRIT 101W (ENGL 121W)	College Writing I			3	
	M 171Q (MATH 181Q)	Calculus I	4			
	M 172Q (MATH 182Q)	Calculus II			4	
	EMEC 100 (ME 101)	Intro to Mechanical Engineering	1			
	EMEC 103 (ME 117, ME 118)	CAE I: Engineering Graphics Commun.	2			
	PHSX 220 (PHYS 211)	Physics I			4	
	Univ. Core Electives		6		3	
			16		18	
	Sophomore Year	EMAT 251 (ChBE 213)	Materials Structures & Properties	3		
EELE 250 (EE 250)		Circuits, Devices, & Motors			4	
EGEN 201 (EM 251)		Engineering Mechanics - Statics	3			
EGEN 202 (EM 252)		Engineering Mechanics - Dynamics			3	
EGEN 205 (EM 253)		Mechanics of Materials			3	
M 273Q (MATH 224Q)		Multivariable Calculus	4			
M 274 (MATH 225)		Intro. to Differential Equations			4	
EMEC 203 (ME 202)		CAE II: ME Computation	2			
EMAT 252 (ME 251)		Materials Structures & Properties Lab	1			
ETME 215 (ME 255)		Manufacturing Processes			3	
ETME 217 (ME 257)		Manufacturing Process Lab - ME			1	
PHSX 222 (PHYS 212)		Physics II	4			
			17		18	
Junior Year	EGEN 335 (EM 335)	Fluid Mechanics	3			
	EGEN 350 (I&ME 350)	Applied Engineering Data Analysis	2			
	EMEC 303 (ME 315)	CAE III: Systems Analysis	3			
	EMEC 320 (ME 320)	Thermodynamics I	3			
	EMEC 321 (ME 321)	Thermodynamics II			3	
	EMEC 326 (ME 326)	Fundamentals of Heat Transfer			3	
	EMEC 341 (ME 341)	Advanced Mechanics of Materials	3			
	EMEC 342 (ME 342)	Mechanical Component Design			3	
	EMEC 360 (ME 360)	Measurements & Instrumentation			4	
	EGEN 310 (ENGR 310)	Multidisciplinary Engineering Design			3	
			14		16	
Senior Year	EMEC 489R (ME 404R)	Capstone: ME Design I	2			
	EMEC 499R (ME 405R)	Capstone: ME Design II			3	
	EMEC 425 (ME 430)	Advanced Thermal Systems	3			
	EMEC 445 (ME 445)	Mechanical Vibrations	3			
	EGEN 488 (ENGR 499)	Fundamentals of Engineering Exam			0	
	Professional Electives		6		6	
	Professional Elective	EMEC 403 or EMEC 405			3	
	Univ. Core Electives				3	
		14		15		
			Total = 128 Credits			