

Mechanical Engineering

	UI Course #	University of Iowa Course Title	SH		DMACC Course #	DMACC Course Title	SH	
Semester 1								
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 211	Calculus I	5	
					MAT 217	Calculus II	5	
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 166	Engineering Graphics/Conceptual Design	4	
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General/Inorganic Chemistry I	4	
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	CHOOSE 1		ENG 105	Composition I	3
						ENG 106	Composition II	3
						ENG 108	Composition II: Technical Writing	3
ENGR:1000	Engr Success for First-Year Students	1*			No equivalent course offered			
	Total		16					
Semester 2								
Spring	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4	
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 148	Linear Algebra w/ Applications	4	
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1		CIS 161	C++	3
						CIS 169	C#	3
						CIS 171	Java	3
				OR BOTH		CIS 125	Intro to Programming Logic	3
						EGR 155	Engineering C/C++	2
PHYS:1611	Introductory Physics I	4		PHY 213	Classical Physics I	6		
	General Education Component #1	3						
	Total		16					
Semester 3								
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace	4	
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 223	Classical Physics II	6	
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3			No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3			No equivalent course offered		
		General Education Component #2	3					
	ME:2020	Sophomore Seminar: Mechanical Engineering	0			No equivalent course offered		
	Total		17					
Semester 4								
OR Spring	ENGR:2720	Materials Science	3			No equivalent course offered		
	ENGR:2750	Mechanics of Deformable Bodies	3			No equivalent course offered		
	ENGR:2760	Design for Manufacturing	3			No equivalent course offered		
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3			No equivalent course offered		
	ENGR:2710	Dynamics	3			No equivalent course offered		
	Elective Focus Area #1	3						
	Total		15					

Semester 5					
	MATH:3550	Engineering Math V: Vector Calculus	3		No equivalent course offered
	ENGR:2510	Fluid Mechanics	4		No equivalent course offered
OR	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered
	ENGR:2760	Design for Manufacturing	3		No equivalent course offered
Fall	ENGR:2730	Computers in Engineering (Section 002)	2		No equivalent course offered
	ME:3351	Engineering Instrumentation	2		No equivalent course offered
		Elective Focus Area #2	3		
	ME:3091	Professional Seminar: Mechanical Engineering	0		No equivalent course offered
		Total	17		
Semester 6					
Spring	ME:3040	Thermodynamics II	3		No equivalent course offered
	ME:3045	Heat Transfer	3		No equivalent course offered
	ME:3052	Mechanical Systems	4		No equivalent course offered
		Elective Focus Area #3	3		
		General Education Component #3	3		
			Total	16	
Semester 7					
	ME:4048	Energy Systems Design	4		No equivalent course offered
	ME:4055	Mechanical Systems Design	3		No equivalent course offered
OR		Elective Focus Area #4	3		No equivalent course offered
	ME:4086	Mechanical Engineering Design Project	3		No equivalent course offered
Fall					
OR		Elective Focus Area #5	3		No equivalent course offered
	ME:4080	Experimental Engineering	4		No equivalent course offered
		General Education Component #4	3		
	ME:3091	Professional Seminar: Mechanical Engineering	0		No equivalent course offered
		Total	16		
Semester 8					
OR	ME:4086	Mechanical Engineering Design Project	3		No equivalent course offered
		Elective Focus Area #4	3		
OR	ME:4080	Experimental Engineering	4		No equivalent course offered
		Elective Focus Area #5	3		
Spring		Elective Focus Area #6	3		
		Elective Focus Area #7	3		
		General Education Component #5	3		
		Total	16		