

ME Curriculum - Engineering at UIR

* Courses in bold require a grade of "C" or better

FRESHMAN YEAR					
First Semester		Second Semester			
ME 1111	Freshman Seminar	1	*PH 2213	Physics I	3
EN 1103	English Composition I	3	*EN 1113	English Composition II	3
*MA 1713	Calculus I	3	*MA 1723	Calculus II	3
CH 1213	Fund. of Chemistry	3	*CH 1223	Fund. of Chemistry	3
CH 1211	Invest. in Chemistry	1		****Computer Programming	3
	**Humanities Elective	3			
	**Fine Arts Elective	3			
Total Credit Hours		17	Total Credit Hours		15

SOPHOMORE YEAR					
First Semester		Second Semester			
*EM 2413	Engr. Mechanics I	3	*EM 2433	Engr. Mechanics II	3
ME 3133	Modeling and Manufacturing	3	*ME 3513	Thermodynamics I	3
PH 2223	Physics II	3	PH 2233	Physics III	3
*MA 2733	Calculus III	3	*MA 2743	Calculus IV	3
*MA 3113	Intro to Linear Algebra	3	*MA 3253	Diff. Equations I	3
	Humanities Elective	3			
Total Credit Hours		18	Total Credit Hours		15

JUNIOR YEAR					
First Semester		Second Semester			
GE 3513	Technical Writing	3	*ECE 3143	Introduction to Electronic Circuits	3
*EM 3213	Mech. of Materials	3	ME 3313	Heat Transfer	3
*EM 3313	Fluid Mechanics	3	ME 3403	Mat for Mech Eng Design	3
	**Social/Behavioral Science Elective	3	ME 3423	Mechanics of Machinery	3
*ME 3113	Engineering Analysis	3	ME 3103	Experimental Measurements &	3
ME 3523	Thermodynamics II	3		**Social/Behavioral Science Elective	3
Total Credit Hours		18	Total Credit Hours		18

SENIOR YEAR				GRADUATE YEAR			
First Semester		Second Semester		Summer Semester			
	Technical Elective	3	ME 4333	Energy Systems Design	3 ME 8xxxx	3	
ME 3613	System Dynamics	3	ME 4443	Mechanical Systems Design	3 ME 8xxxx	3	
ME 4301	Thermal Laboratory	1	ME 4643	Introduction to Vibrations and Controls	3 ECE 6xxxx	3	
ME 4403	Machine Design	3	ME4111	Professional Development Seminar	1 Thesis Research	3	
ECE 3424	Intermediate Electronic Circuits	4	ME 4401	Mechanics Laboratory	1		
	Technical Elective	3	ECE 3443	Signals and Systems	3		
			IE 3913	Engineering Economy	3		
Total Credit Hours		13+4	Total Credit Hours		14+3	Total Credit Hours	12

GRADUATE YEAR

First Semester

ME 8xxx
ME 8xxx
ECE 6xxx
Thesis Research

Second Semester

3 ME 8xxx
3 ME 8xxx
3 Thesis Research
3

3
3
6

12

**Total Credit
Hours**

12 Total Credit Hours