

Proposed Curriculum for Mechanical Engineering MGCCC-MSU Program

MGCCC					
Freshman (Fall Semester)			Freshman (Spring Semester)		
CHE 1214	General Chemistry I with Lab	4	ENG 1123	English Composition II	3
ENG 1113	English Composition I	3	MAT 1623	Calculus II	3
MAT 1613	Calculus I	3	PHY 2514	General Physics I with Lab	4
	<i>Fine Art Elective</i>	3	CHE 1224	General Chemistry II with Lab	4
	<i>Humanities Elective</i>	3		<i>Social Beh./Science Elective</i>	3
		16			17
Sophomore (Fall Semester)			Sophomore (Spring Semester)		
EGR 2413	Engineering Mechanics I	3	EGR 2433	Engineering Mechanics II	3
MAT 2613	Calculus III	3	MAT 2623	Calculus IV	3
MAT 2113	Intro to Linear Algebra	3	MAT 2913	Differential Equations I	3
PHY 2524	General Physics II with Lab	4		<i>Social Beh./Science Elective</i>	3
CSC	Computer Programming*	3		<i>Humanities Elective</i>	3
		16			15
					Total Hours - 64

General Education Courses. Must be from the approved listing.

***Computer Programming includes C or object-oriented programming i.e., C++ (excludes visual basic programming)**

MGCCC – MSU					
Junior (Fall Semester) – First Offering FL '16			Junior (Spring Semester) – First Offering SP '17		
ME 2133	Modeling and Manufacturing	3	ECE 3413	Intro. To Electronic Circuits	3
ME 3513	Thermodynamics I	3	ME 3523	Thermodynamics II	3
EM 3213	Mechanics of Materials	3	ME 3403	Materials for ME Design	3
EM 3313	Fluid Mechanics	3	ME 3423	Mechanics of Machinery	3
ME 3113	Engineering Analysis	3	GE 3513	Technical Writing	3
ME 1111	Intro to Mechanical Engineering	1			
		16			15
Senior (Fall Semester) – First Offering FL '17			Senior (Spring Semester) – First Offering SP '18		
ME 4403	Machine Design	3	ME 4443	Mechanical Systems Design	3
ME 3313	Heat Transfer	3	ME 4333	Energy Systems Design	3
ME 3613	System Dynamics	3	ME 4301	Thermo-Fluids Lab	1
ME 3103	Exp. Measures & Techniques	3	ME 4401	Solid Mechanics Lab	1
IE 3913	Engineering Economy I	3	ME 4111	Professional Seminar	1
	<i>Technical Elective</i>	3	ME 4643	Vibration and Controls	3
				<i>Technical Elective</i>	3
		18			15
					Total Hours- 64

Technical Electives must be from the approved listing. One TE must be a "ME" 4XXX level course.