



Mechanical Engineering Engineering on the Coast

Bagley.msstate.edu/coast

Community College					
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	Physics I with Calculus	4
	Fine Art Elective**	3	CHE 1224	General Chemistry II with Lab	4
	Humanities Elective**	3		Social Beh./Science Elective**	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	Physics II with Calculus	4		Social Beh./Science Elective**	3
CSC 2134	Computer Programming*	3		Humanities Elective**	3
		16			15
Total Hours: 64					

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

**Core electives must be from MSU core-approved list.

Mississippi State University					
Junior (Fall Semester)			Junior (Spring Semester)		
EM 3213	Mechanics of Materials	3	EM 3313	Fluid Mechanics	3
GE 3513	Technical Writing	3	ME 3103	Exp. Measures & Techniques	3
ME 1111	Intro to Mechanical Engineering	1	ME 3403	Materials for ME Design	3
ME 2133	Modeling & Manufacturing	3	ME 3423	Mechanics of Machinery	3
ME 3113	Engineering Analysis	3	ME 3523	Thermodynamics II	3
ME 3513	Thermodynamics I	3		Technical Elective***	3
		16			18
Senior (Fall Semester)			Senior (Spring Semester)		
ECE 3413	Intro to Electronic Circuits	3	IE 3913	Engineering Economy	3
ME 3313	Heat Transfer	3	ME 4301	Thermo-Fluids Lab	1
ME 3613	System Dynamics	3	ME 4333	Energy Systems Design	3
ME 4111	Professional Seminar	1	ME 4443	Mechanical Systems Design	3
ME 4401	Solid Mechanics Lab	1	ME 4643	Intro to Vibrations & Controls	3
ME 4403	Machine Design	3		Technical Elective***	3
	Technical Elective***	3			
		17			16
Total Hours: 67					

***Technical Electives must be approved. One TE must be a "ME" 4XXX level course.