



**Industrial 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	CHE 1224	General Chemistry II with Lab	4
ENG 1113	English Composition I	3	ENG 1123	English Composition II	3
MAT 1613	Calculus I	3	MAT 1623	Calculus II	3
	<i>Fine Art Elective</i>	3	PHY 2514	General Physics I-A with Lab	4
	<i>Humanities Elective</i>	3	PSY 1513	Psychology	3
		16			17
Sophomore (Fall Semester)			Sophomore (Spring Semester)		
EGR 2413	Engineering Mechanics I	3	EGR 2433	Engineering Mechanics II (Engr. Sci. Elective)	3
MAT 2113	Intro to Linear Algebra	3	ACC 2223	Principles of Accounting II	3
MAT 2613	Calculus III	3	MAT 2623	Calculus IV	3
PHY 2524	General Physics II-A with Lab	4	ECO 2123	Microeconomics	3
CSC	Computer Programming*	3		<i>Humanities Elective</i>	3
		16			15
					Total Hours - 64

Electives must be from the approved listing.

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

**Must obtain override for the prerequisite Accounting I class from Business Chair

Mississippi State University					
Junior (Fall Semester)			Junior (Spring Semester)		
IE 1313	Lean Work Systems	3	IE 4933	Information Systems	3
	<i>Engineering Science Elective</i>	3	IE 4623	Statistics II	3
IE 4613	Statistics I	3	IE 3323	Manufacturing Processes	3
IE 3123	Industrial Ergonomics	3	IE 3913	Engineering Economy	3
IE 45X3	Engineering Management Elective	3	IE 4733	Linear Programming	3
		15			15
Senior (Fall Semester)			Senior (Spring Semester)		
IE 4773	Systems Simulation	3	<i>IE XXX3</i>	<i>Industrial Engineering Elective</i>	3
IE 4333	Production Control I	3	IE 4543	Logistics	3
IE 4653	Industrial Quality Control	3		<i>Approved Elective</i>	3
IE 4753	Systems Engineering & Analysis	3	IE 4914	Senior Design	4
GE 3513	Technical Writing	3			
<i>IE XXX3</i>	<i>Industrial Engineering Elective</i>	3		<i>Professional Enhancement Elective</i>	3
		18			16
					Total Hours- 64



ELECTIVE CHOICES: Unless stated otherwise, course numbers correlate to MSU catalog. Courses with “(Comm. College)” note beside it correspond to community college course numbers.

MATH/SCIENCE ELECTIVE

PH 2233 Physics III
MAT 2913 Differential Equations (Comm. College)
MA 3253 Differential Equations I
MA 3053 Foundation of Math I
MA 4143 Graph Theory
MA 4313 Numerical Analysis I
ST 4213 Nonparametric Methods
CH 2313 Analytical Chemistry
BIO 1134 Biology I
GG 4153 Engineering Geology
GG 4233 Applied Geophysics

HUMANITIES ELECTIVES

AAS 1063 Introduction to African American Studies
ARC 2313 History of Architecture I
ARC 3313 History of Architecture II
ARC 3323 History of Architecture III
EN 2203 Introduction to Literature
EN 2213 English Literature
EN 2223 English Literature
EN 2243 American Literature
EN 2253 American Literature
EN 2273 World Literature
EN 2283 World Literature
FL***1113 Language I
FL***1123 Language II
FL***2133 Language III
FL***2143 Language IV
HI 1063 Early U.S. History
HI 1073 Modern U.S. History
HI 1163 World History before 1500
HI 1173 World History since 1500
HI 1213 Early Western World
HI 1223 Modern Western World
HI 1313 East Asian Civilizations to 1300
HI 1323 East Asian Civilizations since 1300
HI 4683 Europe: The First World War to Hitler
HON 1163 The Quest Begins
HON 3183 Honors Seminar in the Humanities
PHI 1103 Introduction to Philosophy
PHI 1113 Introduction to Logic
PHI 1123 Introduction to Ethics
PHI 3023 History of Western Philosophy: Part I
PHI 3033 History of Western Philosophy: Part II
PHI 3153 Aesthetics
REL 1103 Introduction to Religion
REL 3213 World Religions: Part I
REL 3223 World Religions: Part II

*** French (FLF), German (FLG), Greek (FLH), Japanese (FLJ), Latin (FLL), Russian (FLR), and Spanish (FLS)

IE ELECTIVES

Any three-hour non-required industrial engineering course.

FINE ARTS ELECTIVE

ARC 1013 Architectural Appreciation
ART 1013 Art History I
ART 1023 Art History II
ART 1113 Art Appreciation
BCS 1013 Architectural Appreciation
CO 1503 Introduction to Theatre
HON 3173 Honors Seminar in Fine Arts
ID 3643 History of Interiors
LA 1803 Landscape Appreciation
MU 1113 History and Appreciation of Music
MU 1133 The History of Rock and Roll
MU 2213 History and Literature of Music I
MU 2323 History and Literature of Music II
PE 1323 History and Appreciation of Dance
PSS 2343 Floral Design
TKI 2413 History and Appreciation of the Arts

COMPUTER PROGRAMMING ELECTIVE

CSC 2133 Advanced Computer Programming C (Comm. College)
CSC 2134 Programming I with C+ (Comm. College)
CSC 2134A Programming I with C++ (Comm. College)
CSE 1233 Computer Programming with C
CSE 1284 Intro to Computer Programming

ENGINEERING SCIENCE ELECTIVES

All Engineering Science Electives can be found here:
<https://www.ise.msstate.edu/academics/undergraduate/electives/>

Engineering Science Electives offered at EOC Campus:

ECE 3413 Intro to Electronic Circuits
EGR 2433 Engineering Mechanics II (Comm. College)
EM 3213 Mechanics of Materials
EM 3313 Fluid Mechanics
ME 3513 Thermodynamics I
ME 3403 Materials for ME Design
ME 3113 Engineering Analysis

ENGINEERING MANAGEMENT ELECTIVE

IE 4513 Engineering Administration
IE 4533 Project Management

APPROVED ELECTIVE

Almost any non-remedial, non-LSK, non-physical education (excluding varsity sports) course. To be discussed with advisor.

PROFESSIONAL ENRICHMENT ELECTIVE

Any class that aids in the enrichment of their undergraduate program. A class that counts toward a minor or certificate, an F.E. prep class, etc.