



ACADEMIC MAP: PRE-ENGINEERING

The academic map is a recommended 4-semester guide. Some classes may be taken out of sequence.

See your Faculty Advisor for details.

FRESHMAN YEAR

First Semester	Sem Hrs.	Second Semester	Sem Hrs.
ENG 1113 English Composition I	3	ENG 1123 English Composition II	3
CHE 1213 General Chemistry I	3	CHE 1223 General Chemistry II	3
CHE 1211 General Chemistry I Lab	1	CHE 1221 General Chemistry II Lab	1
CSC 1613 Computer Programming I	3	PHY 2313 Engineering Physics I	3
MAT1613 Calculus I	3	MAT 1623 Calculus II	3
EGR 1113 Intro to Engineering	3	ART 1113 or MUS 1113 or SPT 2233	<u>3</u>
LLS 1311 Orientation	<u>1</u>		16
	17		

SOPHOMORE YEAR

First Semester	Sem Hrs.	Second Semester	Sem Hrs.
MAT2613 Calculus III	3	MAT 2623 Calculus IV	3
MAT 2113 Introduction to Linear Algebra	3	MAT 2913 Differential Equations	3
PSY 1513 or ECO 2113	3	SOC 2113 or ECO2123	3
EGR 2423 Engineering Mechanics I	3	EGR 2433 Engineering Mechanics II	3
PHY 2323 Engineering Physics II	3	SPT 1113 Public Speaking I	3
HIS 1163 World Civilization I	<u>3</u>	HIS 1173 World Civilization II	<u>3</u>
	18		18

TOTAL HOURS: 69

NOTES:

1. Please consult with the curriculum from the catalog of the university to which you plan to transfer for specific courses that can be taken at Co-Lin.
2. Acceptance of community college work is limited to one-half of the total degree hour requirement for graduation in a given curriculum.
3. It is the student's responsibility to review the Mississippi Statewide Articulation Agreement called the [MATT Transfer Tool](#) for courses accepted by each Mississippi public university.
4. Co-Lin's Calculus Based PHY2313, PHY2323, PHY2333 courses (3 course sequence for 9 hours) are equivalent to the MATT Guide's PHY2514 & PHY2524 courses (2 course sequence for 8 hours).

UPDATED: 7/29/2021



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*BE also need CHE2424

*CE do not need PHY2323, MAT2113, or CSC1613

*AE do not need CHE1223 or CSC1613, but need PHY2333

*CHE do not need EGR2433 but need CHE2424 and CHE2434

*CPE do not need CHE1223, EGR2423, or EGR2433, but need CSC2623, CSC2134, and CSC2144

*EE do not need CHE1223 or EGR2433, but need CSC2623, CSC2134 and CSC2144

*IE do not need CSC1613, CHE1221LAB or EGR2433 also can take MAT2913 or PHY2333

*ME also need PHY2333

*PE do not need CSC1613, EGR2423 or MAT2113

*SE do not need CHE1223, MAT2113, EGR2423, or EGR2433 but need CSC2623, CSC2134, and CSC2144

BE = Biological Engineering

CE = Civil Engineering

AE = Aerospace Engineering

CHE = Chemical Engineering

CPE = Computer Engineering

EE = Electrical Engineering

IE = Industrial Engineering

ME = Mechanical Engineering

PE = Petroleum Engineering

SE = Software Engineering

For transfer students in Chemical Engineering at MSU

1. Linear Algebra is not required for CHE, but can count as a technical elective
2. Computer programming (python or C++) **will** count as CHE-2213, CHE Analysis, a required freshman CHE course
3. Our Introduction to Engineering will count towards Introduction to Chemical and Petroleum Engineering, a 1 hour freshman course.

UPDATED: 7/29/2021