

Minimum Hours: 131

Engineering (B.S.E.)

Engineering Management option

2024-2025 Catalog

FRESHMAN – Fall Semester		Hours	FRESHMAN – Spring Semester		Hours
COL 101 Foundations for Student Success+	1		CSCI 116 Programming I	3	
ENG 109 College Writing I <u>OR</u> ENG 111 Freshman English*	3		HIS general survey course (100/200 level)	3	
CT 113 Critical Survey of Worldviews	3		PHYS 245/245L College Physics I w/Lab	3/1	
MATH elective**	3		MATH 221 Calculus II	4	
CHEM 131 General Chemistry I	4		EGR 124 Introduction to Design	2	
CT 209 CLF: Missional Engineering	1		EGR 126 Introduction to Computer Aided Design	1	
EGR 121 Introduction to Engineering	2		(ENG 110 College Writing II)*		
TOTAL HOURS	17		TOTAL HOURS	17	

SOPHOMORE – Fall Semester		SOPHOMORE – Spring Semester	
EGR 223 Statics	4	Choose ONE of the following: PSY 111, 228, 330, or 334	3
EGR 331 Data Visualization	3	CT 210 CLF: Biblical Environmentalism	1
EGR 347 Engineering Professional Development	1	EGR 222 Circuits and Instrumentation	3
MATH 222 Calculus III	4	EGR 224 Dynamics	3
PHYS 246/246L College Physics II w/Lab	3/1	EGR 226 Mechanics of Materials	4
		MATH 211 Elementary Statistics	3
TOTAL HOURS	16	TOTAL HOURS	17

JUNIOR – Fall Semester		JUNIOR – Spring Semester	
EGR 321 Design of Experiments	3	BIB 224 New Testament Literature & Interpretation	3
EGR 323 Thermodynamics	4	CT 105 CLF: Engineering Service	1
MATH 326 Differential Equations	4	Choose ONE of the following: ENG 100/200, FA 211, FLM 210, MUS 100/200, or THT 100/200 (excludes ENG 245, lessons, ensembles, practicum)	3
ACCT 231 Principles of Accounting I	3	EGR 322 Fluid Mechanics	4
EGCI Engineering Project Management	3	MGT 237 Principles of Management	3
		Engineering Elective-EGR, EGCI, EGME	3
TOTAL HOURS	17	TOTAL HOURS	17

SENIOR – Fall Semester		SENIOR – Spring Semester	
BIB 222 Old Testament Literature & Interpretation	3	PHIL 424 Engineering Ethics	3
COMM 111 Intro to Communication	3	EGR 492 Capstone Senior Design II	4
EGR 325 Engineering Economics	2	Engineering Elective-EGR, EGCI, EGME OR COL 110 EGR track	1
EGR 491 Capstone Senior Design I	2	Option elective***	3
Option elective***	3	Option elective*** (300/400 level)	3
Option elective*** (300/400 level)	3		
TOTAL HOURS	16	TOTAL HOURS	14

+ COL 101 is required of first time freshmen who have no standardized test scores or those who score less than 18 on the ACT Composite, less than 960 on the SAT or less than 61 on the CLT.

*Students are required to take either ENG 109/110 College Writing I and II (6 credits) OR ENG 111 Freshman English (3 credits). Placement in ENG 111 requires an ACT English score of at least 21 OR an SAT Evidence-Based Reading & Writing score of at least 530 OR CLT score of at least 68. Students who are placed in the ENG 109-110 sequence will need to take ENG 110 in the spring semester of the freshman year.

** Choice of MATH elective should prepare student to enroll in MATH 221 Calculus II which is required in the major. Students taking Math 117 Precalculus will start the calculus sequence with Math 122 Calculus I in the second semester.

*** Option electives chosen from: ACCT 232, ACCT 335, ACCT 338, BUS 121, BUS 448, MGT 343, MGT 346, MGT 415, MGT 424, MGT 441, MKT 243.

This document is to be used for planning purposes only. Please refer to the academic catalog for complete information. Course planning should be completed in consultation with your academic adviser. Not all courses are offered every semester or every year. Minimum total hours for a bachelors degree is 120.