FRESHMAN - Fall Semester

Engineering (B.S.E.)

FRESHMAN - Spring Semester

Chemistry option

Hours

2023-2024 Catalog

Hours

FRESHWAN - Fall Semester	Hours	FRESHMAN - Spring Semester Hot	JIS .
COL 101 Foundations for Student Success+	1	CSCI 116 Programming I	3
ENG 109 College Writing I OR 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	EGR 124 Introduction to Design	3
CHEM 131 General Chemistry I	4	MATH 221 Calculus II	4
EGR 121 Introduction to Engineering	2	(ENG 110 College Writing II)*	
TOTAL HOURS	16	TOTAL HOURS	17
SOPHOMORE – Fall Semester		SOPHOMORE – Spring Semester	
CT 209 CLF: Missional Engineering	1	CHEM 132 General Chemistry II	4
EGR 223 Statics	4	EGR 222 Circuits and Instrumentation	3
EGR 331 Data Visualization	3	EGR 224 Dynamics	3
EGR 347 Engineering Professional Development	1	EGR 226 Mechanics of Materials	4
MATH 222 Calculus III	4	MATH 211 Elementary Statistics	3
PHYS 246/246L College Physics II w/Lab	3/1		
TOTAL HOURS	17	TOTAL HOURS	17
JUNIOR – Fall Semester		JUNIOR – Spring Semester	
CHEM 241 Organic Chemistry I	4	Choose <i>ONE</i> of the following: ENG 100/200, FA 211, FLM 210, MUS 100/200, or THT 100/200 (excludes ENG 245, lessons, ensembles, practicums)	3
EGR 321 Design of Experiments	3	Choose <i>ONE</i> of the following: PSY 111, 228, 330, or 334	3
EGR 323 Thermodynamics	4	CHEM 242 Organic Chemistry II	4
MATH 326 Differential Equations	4	EGR 322 Fluid Mechanics	4
		EGR 422 Heat Transfer	3
TOTAL HOURS	15	TOTAL HOURS	17
SENIOR – Fall Semester		SENIOR – Spring Semester	
BIB 222 Old Testament Literature & Interpretation	3	BIB 224 New Testament Literature & Interpretation	3
COMM 111 Intro to Communication	3	CT 105 CLF: Engineering Service	1
CHEM Elective (300/400 level)	4	CT 210 CLF: Biblical Environmentalism	1
EGR 225 Engineering Economics	2	PHIL 424 Engineering Ethics	3
EGR 491 Capstone Senior Design I	2	CHEM Electives (300/400 level)	5
Engineering Electives (300/400 level)-EGR, EGCI, EGME	3	EGR 492 Capstone Senior Design II	4
TOTAL HOURS	17	TOTAL HOURS	17

⁺ 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.

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.

^{*}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 <u>English</u> score of at least 21 <u>OR</u> an SAT Evidence-Based Reading & Writing score of at least 530 <u>OR</u> 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.