

Minimum Hours: 134

# Engineering (B.S.E.)

## Business Management option

2019-2020 Catalog

FRESHMAN – Fall Semester		Hours	FRESHMAN – Spring Semester		Hours
ENG 109 College Writing I <u>OR</u> ENG 111 Freshman English*	3		MATH 221 Calculus II	4	
CT 209 CLF: Missional Engineering	1		EGR 124 Intro to Engineering Design-Art of Engineering	3	
COLL 100 Bryan Gateway Seminar	1		EGR 122 Engineering Service	1	
MATH elective**	3		CT 113 Critical Survey of Worldviews	3	
CHEM 131 General Chemistry I	4		PHYS 245 College Physics I	4	
EGR 121 Introduction to Engineering the Great Commission	3		CSCI 116 Programming I	3	
			(ENG 110 College Writing II)*		
<b>TOTAL HOURS</b>	<b>15</b>		<b>TOTAL HOURS</b>	<b>18</b>	

SOPHOMORE – Fall Semester		SOPHOMORE – Spring Semester	
PHYS 246 College Physics II	4	MATH 326 Differential Equations	4
MATH 222 Calculus III	4	EGR 222 Circuits and Instrumentation	3
EGR 223 Engineering Mechanics - Statics	3	EGR 224 Engineering Mechanics - Dynamics	3
EGR 221 Computational Methods	3	EGR 226 Mechanics of Materials	3
CT CLF elective	1	CT 210 CLF: Biblical Environmentalism	1
BUS 121 Introduction to Business	3	MGT 237 Principles of Management	3
<b>TOTAL HOURS</b>	<b>18</b>	<b>TOTAL HOURS</b>	<b>17</b>

JUNIOR – Fall Semester		JUNIOR – Spring Semester	
EGR 321 Design of Experiments	3	EGR 322 Fluid Mechanics	4
EGR 323 Engineering Thermodynamics	3	MATH 242 Statistics for Scientists & Engineers	3
BIB 222 Old Testament Literature & Interpretation	3	BIB 224 New Testament Literature & Interpretation	3
ACCT 231 Principles of Accounting I	3	EGR 422 Heat Transfer	3
MGT 329 Project Management	3	ACCT 232 Principles of Accounting II	3
EGR 347 Engineering Professional Development I	1	EGR 349 Engineering Professional Development II	1
<b>TOTAL HOURS</b>	<b>16</b>	<b>TOTAL HOURS</b>	<b>17</b>

SENIOR – Fall Semester		SENIOR – Spring Semester	
EGR 225 Engineering Economics	3	EGR 424 Engineering Ethics	3
EGR 491 Capstone Senior Design I	3	EGR 492 Capstone Senior Design II	3
Option elective***	3	Option elective upper level***	3
HIS general survey course (100/200 level)	3	Choose <b>ONE</b> of the following: SS 211, PSGS 315, PSY 111, 228, 334	3
COMM 111 Intro to Communication	3	EGR upper level elective	3
Choose <b>ONE</b> of the following: ENG 211, FA 211, MUS 210, THT 111, or FLM 210	3		
<b>TOTAL HOURS</b>	<b>18</b>	<b>TOTAL HOURS</b>	<b>15</b>

\*Depending on standardized test scores, students are required to take either ENG 109-110 College Writing I and II (6 credits) OR ENG 111 Freshman English (3 credits). 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.

\*\*\* Two option electives chosen from (one must be upper level): ACCT 335, 336, 338; BUS 326; ECFN 221, 325, 439; MGT 343, 415, 492; MKT 237

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.