

Minimum Hours: 134

# Engineering (B.S.E.)

## Business Management option

2020-2021 Catalog

FRESHMAN – Fall Semester		Hours	FRESHMAN – Spring Semester		Hours
COL 100 Bryan Gateway Seminar	1		CT 113 Critical Survey of Worldviews	3	
ENG 109 College Writing I <u>OR</u> ENG 111 Freshman English*	3		PHYS 245 College Physics I	4	
CT 209 CLF: Missional Engineering	1		CSCI 116 Programming I	3	
CT CLF elective	1		<b>MATH 221 Calculus II</b>	4	
MATH elective**	3		<b>EGR 124 Intro to Engineering Design-Art of Engineering</b>	3	
<b>CHEM 131 General Chemistry I</b>	4		<b>EGR 122 Engineering Service</b>	1	
<b>EGR 121 Introduction to Engineering</b>	3		(ENG 110 College Writing II)*		
<b>TOTAL HOURS</b>	<b>16</b>		<b>TOTAL HOURS</b>	<b>18</b>	

SOPHOMORE – Fall Semester		SOPHOMORE – Spring Semester	
PHYS 246 College Physics II	4	CT 210 CLF: Biblical Environmentalism	1
<b>MATH 222 Calculus III</b>	4	<b>MATH 326 Differential Equations</b>	4
<b>EGR 223 Engineering Mechanics - Statics</b>	3	<b>EGR 222 Circuits and Instrumentation</b>	3
<b>EGR 331 Data Visualization</b>	3	<b>EGR 224 Engineering Mechanics - Dynamics</b>	3
<b>BUS 121 Introduction to Business</b>	3	<b>EGR 226 Mechanics of Materials</b>	3
		<b>MGT 237 Principles of Management</b>	3
<b>TOTAL HOURS</b>	<b>17</b>	<b>TOTAL HOURS</b>	<b>17</b>

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

SENIOR – Fall Semester		SENIOR – Spring Semester	
<b>EGR 225 Engineering Economics</b>	3	Choose <b>ONE</b> of the following: SS 211, PSGS 315, PSY 111, 228, 334	3
<b>EGR 491 Capstone Senior Design I</b>	3	<b>EGR 424 Engineering Ethics</b>	3
<b>Option elective***</b>	3	<b>EGR 492 Capstone Senior Design II</b>	3
HIS general survey course (100/200 level)	3	<b>Option elective (300/400 level)***</b>	3
COMM 111 Intro to Communication	3	<b>EGR elective (300/400 level)</b>	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 300/400 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.