

School of Engineering and Engineering Technology
ENGINEERING, B.S.
BIOMEDICAL CONCENTRATION (BME)
2018-19
SUGGESTED COURSE SEQUENCE

First Semester - Fall			
17 Hours			
___	CHEM	1111	1 General Chemistry I Lab
___	CHEM	1113	3 General Chemistry I
___	ENGL	1013	3 English Composition I
___	ENGR	1513	3 Intro to Engineering Practice I (Fall only)
___	LETU	1101	1 Cornerstones of Life & Learning
___	MATH	1903	3 Calculus I ⁽¹⁾
___	BIBL	1033	3 Biblical Literature

Second Semester - Spring			
17 Hours			
___	COMM	1113	3 Intro to Speech Communication
___	ENGL	1023	3 English Composition II
___	ENGR	1311	1 Manufacturing Processes Lab
___	ENGR	1523	3 Intro to Engineering Practice II (Spring only)
___	MATH	2013	3 Calculus II ⁽¹⁾
___	PHYS	2011	1 University Physics I Lab (Spring only) ⁽²⁾
___	PHYS	2013	3 University Physics I (Spring only) ⁽²⁾

Third Semester - Fall			
17 Hours			
___	BIOL	2014	4 Human Anatomy & Physiology I (Fall only)
___	EEGR	2053	3 Electric Circuits ⁽¹⁾
___	ENGR	2704	4 Project Mgmt, Design & Entrepren
___	MATH	2023	3 Calculus III
___	MEGR	2013	3 Statics ⁽¹⁾

Fourth Semester - Spring			
17 Hours			
___	BIOL	2024	4 Human Anatomy & Physiology II (Spring only)
___	COSC	1303	3 Computer Science I
___	EEGR	2051	1 Circuits & Measurements Lab ⁽¹⁾
___	ENGR	2400	0 Sophomore Design Seminar (Spring only)
___	MATH	2203	3 Differential Equations
___	MEGR	2023	3 Dynamics ⁽¹⁾
___	THEO	2043	3 Biblical Theology for the Christian Life

Fifth Semester - Fall			
15 Hours			
___	BEGR	2503	3 Intro to Bioinstrumentation (Fall only)
___	BEGR	3614	4 Biomechanics I (Fall only)
___	BEGR	3811	1 Jr Biomedical Engr. Research I (Fall only)
___	MEGR	3513	3 Fluid Mechanics ⁽³⁾
___	PHYS	2021	1 University Physics II Lab (Fall only)
___	PHYS	2023	3 University Physics II (Fall only)

Sixth Semester - Spring			
16 Hours			
___	BEGR	3424	4 Biosignal Analysis (Spring only)
___	BEGR	3624	4 Biomechanics II (Spring only)
___	BEGR	3822	2 Jr Biomedical Engr. Research II (Spring only)
___	BUSI		3 Foundations of Business for Engineers ⁽⁴⁾
___			3 Engineering/Science/Math/CS Elective ⁽⁵⁾

Seventh Semester - Fall			
15 Hours			
___	ENGR	4813	3 Senior Design I (Fall only)
___	MATH	3403	3 Statistics ⁽⁶⁾
___	BIBL		3 Biblical Engagement Elective
___			3 Civic Engagement Elective
___			3 Engineering/Science/Math/CS Elective ⁽⁵⁾

Eighth Semester - Spring			
16 Hours			
___	ENGR	4823	3 Senior Design II (Spring only)
___	MATH	4521	1 Quality Control ⁽⁶⁾
___	THEO		3 Theological Engagement Elective
___			3 Civic Engagement Elective
___			3 Engineering/Science/Math/CS Elective ⁽⁵⁾
___			3 Ingenuity Elective

TOTAL HOURS 130

1: Minimum grade of 'C' required.

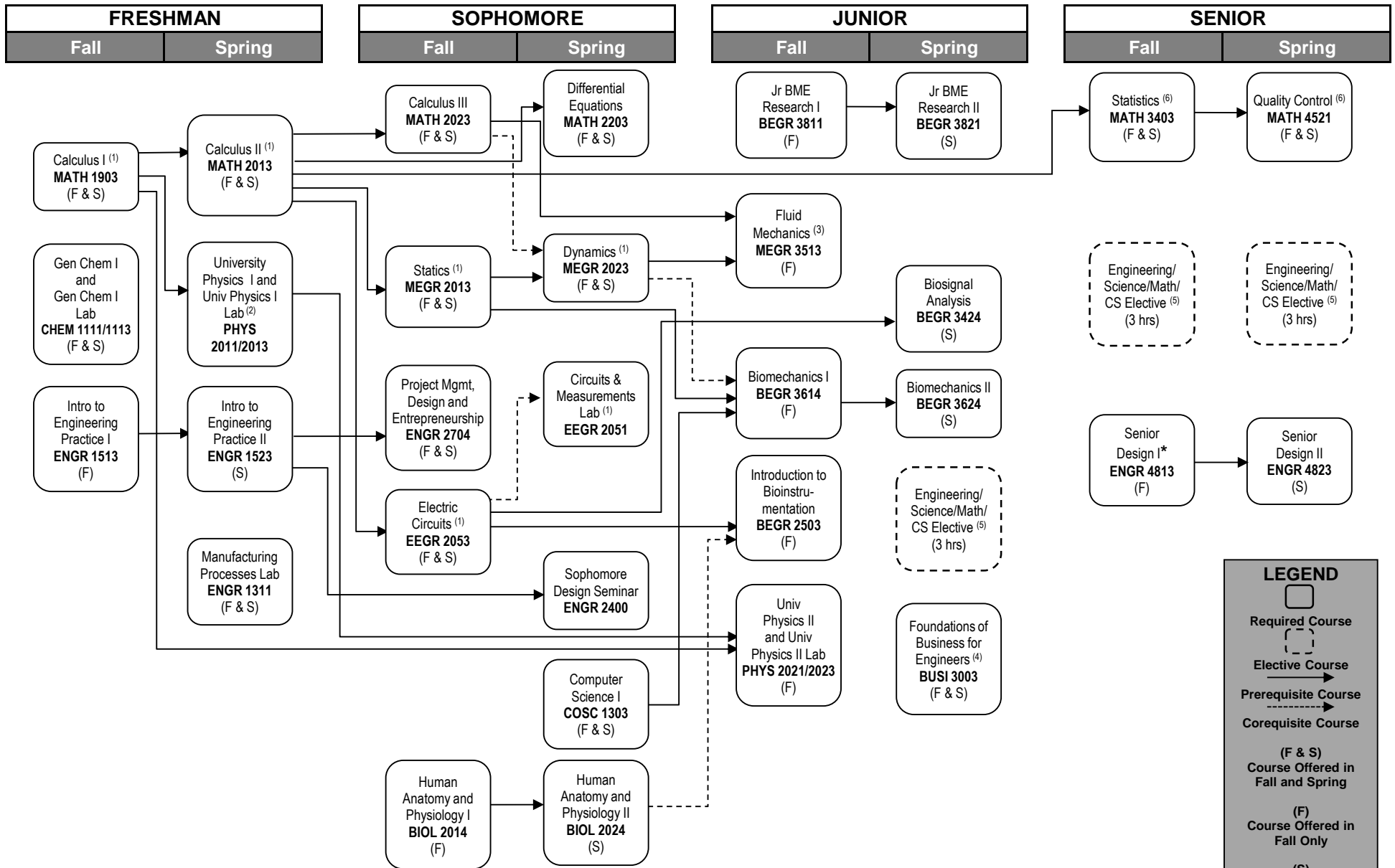
2: CHEM 1121/1123 General Chemistry II Lab/General Chemistry II may be substituted for PHYS2011/2013 (recommended for Medical School)

3: EEGR 3213 Digital Electronics, MEGR 3323 Mechanics of Materials (Spring), or EEGR 3523 Mechatronics (Spring) may be substituted for MEGR 3513.

4: ENGR 4653 Advanced Engineering Analysis recommended if considering engineering graduate school; or Science elective recommended if considering medical school.

5: Recommended: Technical electives should be chosen to create an emphasis track in EE, ME, CS, or BIOL. See BME advisor for options.

6: MATH 2303 Linear Algebra and MATH 2301 Linear Algebra Lab may be substituted for MATH 3403 and MATH 4521.



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*Senior standing, completion of junior courses in concentration, and consent of instructor required.

LEGEND

- Required Course
- Elective Course
- Prerequisite Course
- Corequisite Course
- (F & S) Course Offered in Fall and Spring
- (F) Course Offered in Fall Only
- (S) Course Offered in Spring Only
- Odd = Course Offered in Odd Years Only
- Even = Course Offered in Even Years Only