

School of Engineering and Engineering Technology
ELECTRICAL & COMPUTER ENGINEERING, B.S.
COMPUTER CONCENTRATION (BSCP)

2021-22

SUGGESTED COURSE SEQUENCE

First Semester - Fall

16 Hours

___	BIBL	1033	3	Biblical Literature
___	CPGR	2102	2	Intro to Computer Engineering (Fall only)
___	ENGL	1013	3	English Composition I
___	ENGR	1311	1	Manufacturing Processes Lab
___	ENGR	1513	3	Intro to Engineering Practice I (Fall only)
___	LETU	1101	1	Cornerstones of Life & Learning
___	MATH	1903	3	Calculus I ⁽¹⁾

Second Semester - Spring

16 Hours

___	ENGL	1023	3	English Composition II
___	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)
___	PHYS	2013	3	University Physics I (Spring only)
___	THEO	2043	3	Biblical Theology for the Christian Life

Third Semester - Fall

17 Hours

___	COSC	1303	3	Computer Science I
___	EEGR	2051	1	Circuits & Measurements Lab ⁽¹⁾
___	EEGR	2053	3	Electric Circuits ⁽¹⁾
___	MATH	2203	3	Differential Equations
___	PHYS	2021	1	University Physics II Lab (Fall only)
___	PHYS	2023	3	University Physics II (Fall only)
___			3	Civic Engagement Elective

Fourth Semester - Spring

16 Hours

___	COSC	2103	3	Computer Science II
___	EEGR	2163	3	Advanced Circuits ⁽¹⁾ (Spring only)
___	EEGR	3213	3	Digital Electronics
___	ENGR	2400	0	Sophomore Design Seminar (Spring only)
___	ENGR	2704	4	Project Mgmt, Design & Entrepreneurship
___	MATH	2003	3	Discrete Mathematics

Fifth Semester - Fall

15 Hours

___	COMM	1113	3	Intro to Speech Communication
___	COSC	2203	3	Data Structures
___	CPGR	4233	3	Intro to Microprocessors/computers (Fall only)
___	EEGR	3243	3	Electronics and Lab (Fall only)
___	MATH	2303	3	Linear Algebra

Sixth Semester - Spring

15 Hours

___	BUSI	3023	3	Entrepreneurship for Engineers ⁽²⁾
___	CPGR	4253	3	Microcomputer Design (Spring only)
___	EEGR	4283	3	Digital Signal Processing (Spring only)
___	MATH		3	Math Elective ⁽³⁾
___	MEGR	2013	3	Statics ⁽¹⁾

Seventh Semester - Fall

16 Hours

___	BIBL		3	Biblical Engagement Elective
___	CHEM	1111	1	General Chemistry I Lab
___	CHEM	1113	3	General Chemistry I
___	COSC	3603	3	Networks & Data Communications (Fall only) ⁽⁴⁾
___	ENGR	4813	3	Senior Design I (Fall only)
___	MATH	3403	3	Statistics

Eighth Semester - Spring

15 Hours

___	ENGR	4823	3	Senior Design II (Spring only)
___	THEO		3	Theological Engagement Elective
___			3	Civic Engagement Elective
___			3	Ingenuity Elective
___			3	Technical Elective ⁽⁵⁾

TOTAL HOURS 126

1: Minimum grade of 'C' required.

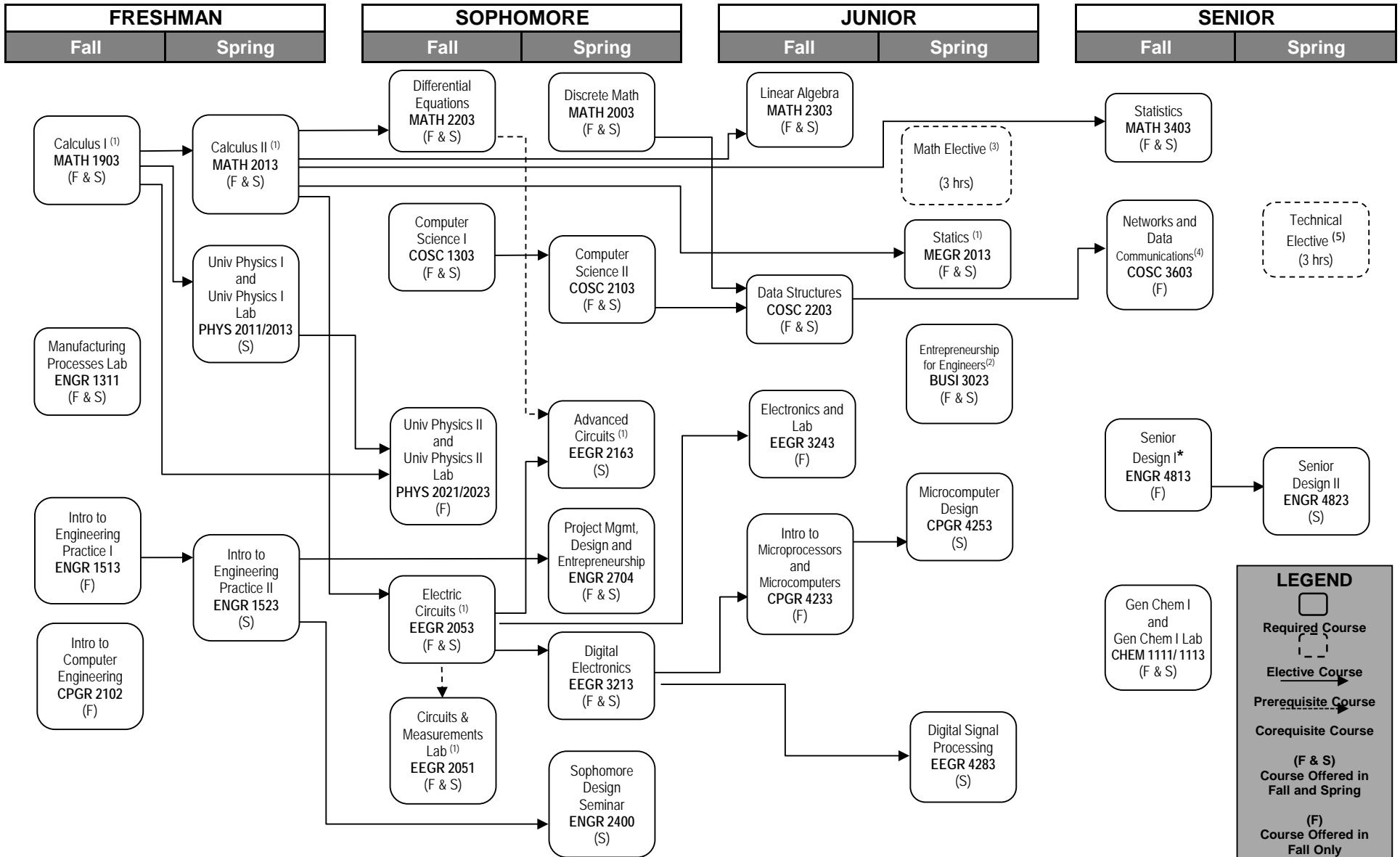
2: ENGR 6223 Advanced Engineering Mathematics recommended if considering engineering graduate school.

3: MATH 3453, 4233, 4253, 4403 or 4513

4: COSC 3303 Computer Architecture (Spring only) or COSC 3503 Operating Systems (Spring only) may be substituted for COSC 3603.

5: Any approved engineering course or computer science course

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