School of Engineering and Engineering Technology

ELECTRICAL & COMPUTER ENGINEERING, B.S.

ELECTRICAL CONCENTRATION (ECEE)

2023-24

SUGGESTED COURSE SEQUENCE

First Semester - Fall				
			16	Hours
____	BIBL	1033	3	Biblical Literature
____	COSC	1303	3	Computer Science 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]

Second Semester - Spring				
			17	Hours
____	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)
____	PHYS	2013	3	University Physics I (Spring only)
____	THEO	2043	3	Biblical Theology for the Christian Life

Third Semester - Fall				
			17	Hours
____	COMM	1113	3	Intro to Speech Communication
____	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				
			17	Hours
____	CHEM	1111	1	General Chemistry I Lab
____	CHEM	1113	3	General Chemistry I
____	EEGR	2163	3	Advanced Circuits (Spring only) [1]
____	EEGR	3213	3	Digital Electronics
____	ENGR	2400	0	Sophomore Design Seminar (Spring only)
____	ENGR	2704	4	Project Mgmt, Design & Entrepreneurship
____	MATH	2023	3	Calculus III

Fifth Semester - Fall				
			15	Hours
____	EEGR	3243	3	Electronics and Lab (Fall only)
____	EEGR	4513	3	Electromagnetic Fields & Waves (Fall only)
____	ENGR	2023	3	Introduction to Mechanics [1]
____	MATH		3	Math Elective [4]
____			3	Civic Engagement Elective

Sixth Semester - Spring				
			15	Hours
____	BUSI	3023	3	Entrepreneurship for Engineers [3]
____	EEGR	3233	3	Intro to Microcontrollers (Spring only) [2]
____	EEGR	3253	3	Advanced Electronics & Lab (Spring only)
____	EEGR	4283	3	Digital Signal Processing (Spring only)
____			3	Technical Elective [5]

Seventh Semester - Fall				
			15	Hours
____	BIBL		3	Biblical Engagement Elective
____	EEGR	3523	3	Mechatronics (Fall only)
____	ENGR	4813	3	Senior Design I (Fall only)
____	MATH	3403	3	Statistics
____			3	Ingenuity Elective

Eighth Semester - Spring				
			15	Hours
____	EEGR	4613	3	Communications Engineering (Spring only)
____	EEGR		3	Technical Elective [6]
____	ENGR	4823	3	Senior Design II (Spring Only)
____	MATH	2003	3	Discrete Mathematics
____	THEO		3	Theological Engagement Elective

TOTAL HOURS 127

1: Minimum grade of 'C' required.

2: EEGR 4233 Introduction to Microprocessors and Microcomputers (Fall) may be substituted for EEGR 3233.

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

4: MATH 4403 (recommended) or 2303

5: Any approved engineering course or COSC course.

5: Any 4000 level approved EEGR course

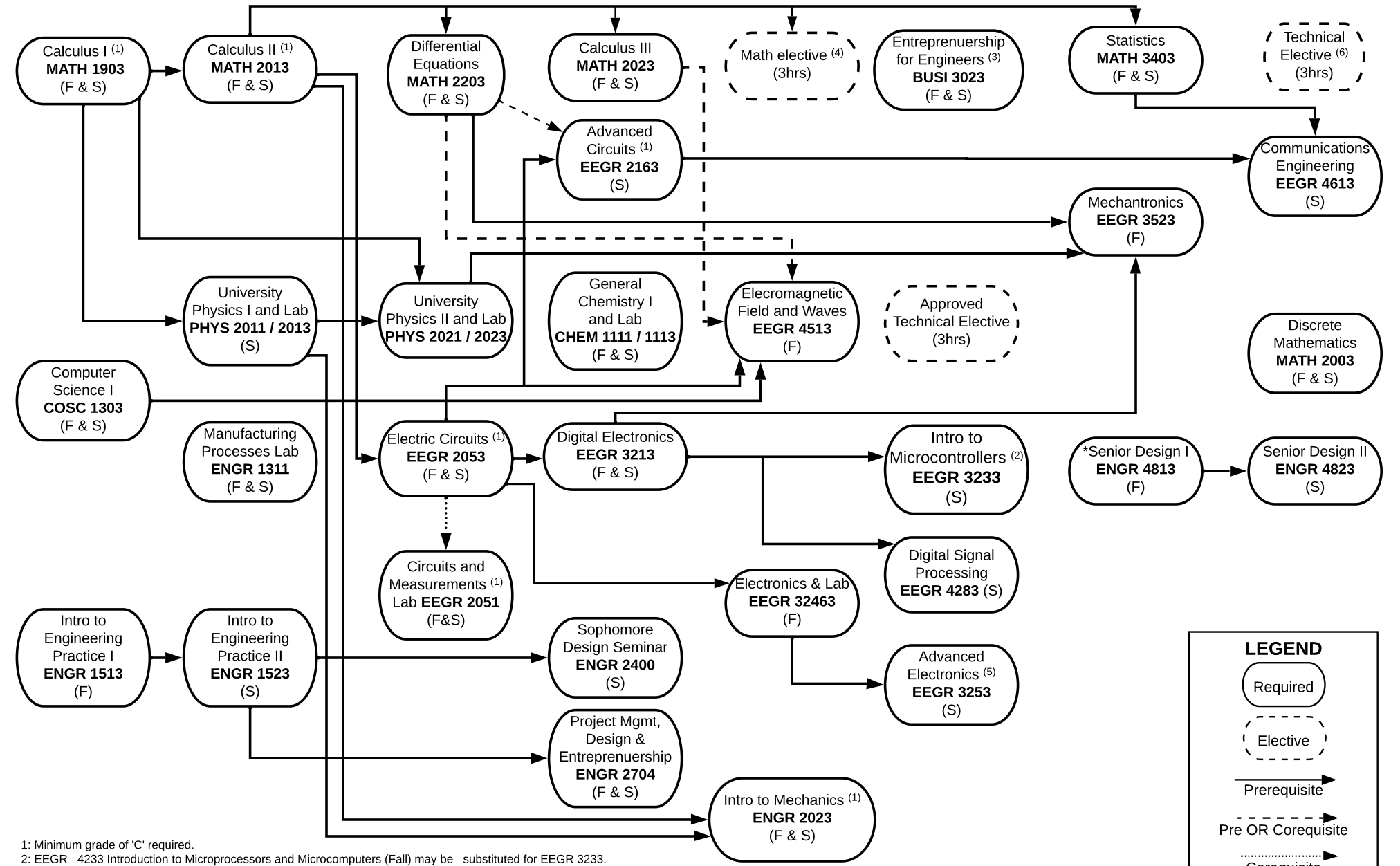
rev 2/06/2023

B.S. Electrical and Computer Engineering

Technical Course Sequence - Electrical Concentration

2023-2024

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring



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3: ENGR 6223 Advanced Engineering Mathematics recommended if considering engineering graduate school.
4: MATH 4403 (recommended) or 2303
5: Any approved engineering course or COSC course
6: Any 4000 level approved EEGR course

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

LEGEND

- Required
- Elective
- Prerequisite
- Pre OR Corequisite
- Corequisite

(F) = Fall Only
(S) = Spring Only