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

2024-25

SUGGESTED COURSE SEQUENCE

Fi	rst Semester - Fall
4.0	

			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			Cornerstones of Life & Learning
	MATH	1903	3	Calculus I ⁽¹⁾

Second Semester - Spring							
				17	Hours		
	E	NGL	1023	3	English Composition II		
	EN	NGR	1311	1	Manufacturing Processes Lab		
	El	NGR	1523		Intro to Engineering Practice II (Spring only)		
	M	ATH	2013	3	Calculus II ⁽¹⁾		
	Pł	HYS	2011	1	University Physics I Lab (Spring only)		
	Pł	HYS	2013	3	University Physics I (Spring only)		
	TF	IEO	2043	3	Biblical Theology for the Christian Life		

Third Semester - Fall								
17 Hours								
3 Intro to Speech Communication								
1 Circuits & Measurements Lab ⁽¹⁾								
3 Electric Circuits ⁽¹⁾								
3 Differential Equations								
1 University Physics II Lab (Fall only)								
3 University Physics II (Fall only)								
3 Civic Engagement Elective								

Fourth Semester - Spring							
		17	Hours				
CHEM	1111	1	General Chemistry I Lab				
CHEM	1113		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 32	243 3	Electronics and Lab (Fall only)					
EEGR 4		Electromagnetic Fields & Waves (Fall only)					
ENGR 20	023 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		Digital Signal Processing (Spring only)					
			3	Technical Elective ⁽⁵⁾					

Seventh Semester - Fall					Eighth Semester - Spring				
		15	Hours					15	Hours
BIBL		3	Biblical Engagement Elective			EEGR	4613	3	Communications Engineering (Spring only)
EEGR	3523	3	Mechatronics (Fall only)			EEGR		3	Technical Elective ⁽⁶⁾
ENGR	4813	3	Senior Design I (Fall only)			ENGR	4823	3	Senior Design II (Spring Only)
MATH	3403	3	Statistics			MATH	2003	3	Discrete Mathematics
		3	Humanities & Fine Arts Elective			THEO		3	Theological Engagement Elective
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1: Minimum grade of 'C' required.

TOTAL HOURS 127

nimum 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.

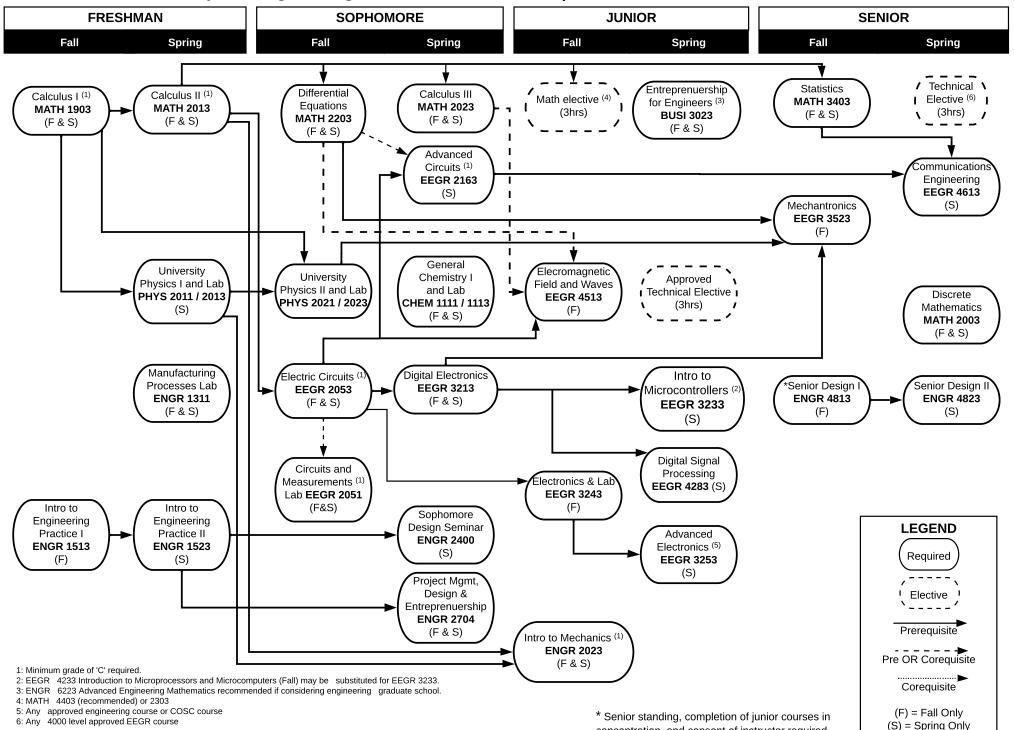
5: Any 4000 level approved EEGR course

rev 5/12/2024

B.S. Electrical and Computer Engineering

Technical Course Sequence - Electrical Concentration

2024-2025



6: Any 4000 level approved EEGR course

concentration, and consent of instructor required.