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

2024-25

SUGGESTED COURSE SEQUENCE

					C					
First Semester - Fall					Second Semester - Spring					
		16	Hours				16	Hours		
BIBL	1033	3	Biblical Literature		ENGL	1023	3	English Composition II		
CPGR	2102	2	Intro to Computer Engineering (Fall only)		ENGR	1523	3	Intro to Engineering Practice II (Spring only)		
ENGL	1013	3	English Composition I		MATH	2013	3	Calculus II ⁽¹⁾		
ENGR	1311	1	Manufacturing Processes Lab		PHYS	2011	1	University Physics I Lab (Spring only)		
ENGR	1513		Intro to Engineering Practice I (Fall only)		PHYS	2013	3	University Physics I (Spring only)		
LETU	1101	1	Cornerstones of Life & Learning		THEO	2043	3	Biblical Theology for the Christian Life		
MATH	1903	3	Calculus I ⁽¹⁾							
Third Semester - Fall					Fourth Semester - Spring					
			Hours	1				Hours		
cosc	1303	3	Computer Science I		cosc	2103	3	Computer Science II		
EEGR	2051	1	Circuits & Measurements Lab ⁽¹⁾		EEGR	2163	3	Advanced Circuits ⁽¹⁾ (Spring only)		
EEGR	2053	3	Electric Circuits ⁽¹⁾		EEGR	3213	3	Digital Electronics		
MATH	2203		Differential Equations		ENGR	2023	3	0		
PHYS	2021	1	University Physics II Lab (Fall only)		ENGR	2400	0	Sophomore Design Seminar (Spring only)		
PHYS	2023	3	University Physics II (Fall only)		MATH	2003	3	Discrete Mathematics		
		3	Civic Engagement Elective			2000	Ū			
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	Fifth Semester - Fall					Sixth Semester - Spring				
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		3	•		BUSI	3023	3	Entrepreneurship for Engineers ⁽²⁾		
COSC	2203	3	Data Structures		CPGR	4253	3			
CPGR	4233	3	Intro to Microprocessors/computers (Fall only)		EEGR	4283	3	Digital Signal Processing (Spring only)		
EEGR MATH	3243	3 3	Electronics and Lab (Fall only)		ENGR MATH	2704	4 3	Project Mgmt, Design & Entrepreneurship Math Elective ⁽³⁾		
WATH	2303	3	Linear Algebra				3			
Seventh Semester - Fall					Eighth Semester - Spring					
		16	Hours				15	Hours		
BIBL		3	Biblical Engagement Elective		ENGR	4823	3	Senior Design II (Spring only)		
CHEM	1111	1	General Chemistry I Lab		THEO		3	Theological Engagement Elective		
CHEM	1113	3	General Chemistry I				3	Civic Engagement Elective		
COSC	3603	3	Networks & Data Communications(Fall only) (4)				3	Humanities & Fine Arts Elective		
ENGR	4813	3	Senior Design I (Fall only)		<u> </u>		3	Technical Elective ⁽⁵⁾		
MATH	3403	3	Statistics							

## **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

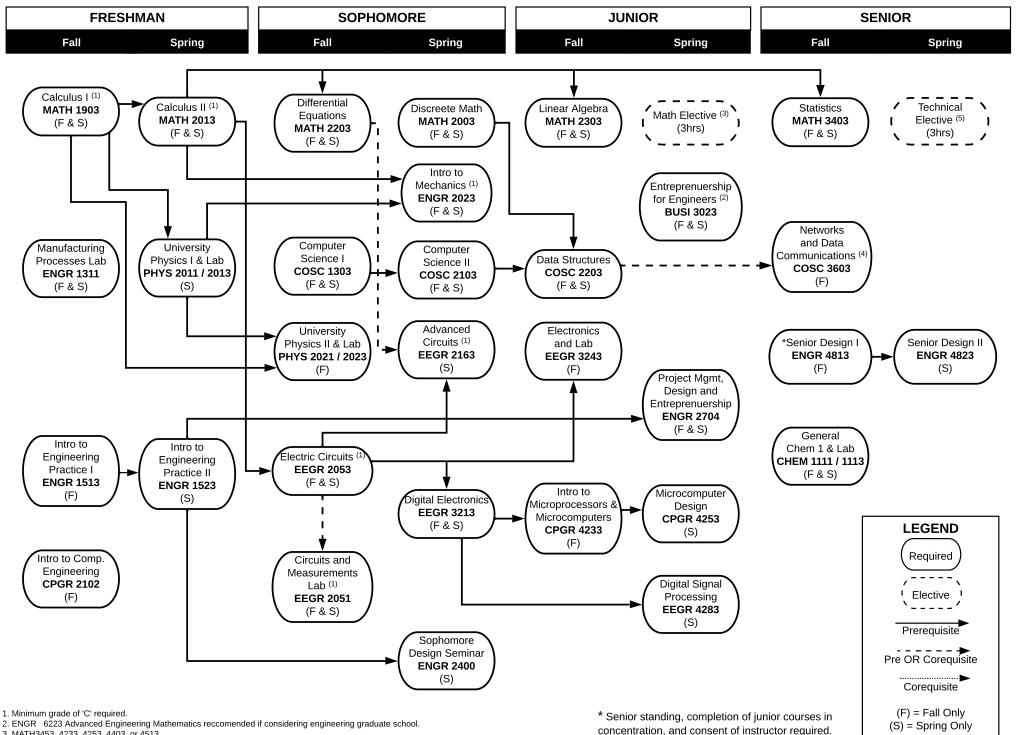
4: COSC 3303 Computer Architecture (Spring only) or COSC 3503 Operating Systems (Spring only) may be substituted for COSC 3603.

5: Any approved engineering course or computer science course

rev 5/12/2024

## B.S., Electrical and Computer Engineering (ECCP) — Technical Course Sequence - Computer Concentration

2024-2025



3. MATH3453, 4233, 4253, 4403, or 4513

4. COSC3303 Computer Architecture (Spring only) or COSC3503 Operating Systems (Srping only) may be substituted for COSC3603

5. Any approved engineering course or COSC course.