School of Engineering and Engineering Technology

ENGINEERING, B.S.

COMPUTER CONCENTRATION (CE)

2018-19

SUGGESTED COURSE SEQUENCE

First Semester - Fall				
			16	Hours
____	BIBL	1033	3	Biblical Literature
____	CEGR	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	1803	3	Discrete Mathematics

Fifth Semester - Fall				
			16	Hours
____	CEGR	4233	3	Intro to Microprocessors/computers (Fall only)
____	COMM	1113	3	Intro to Speech Communication
____	COSC	2203	3	Data Structures
____	EEGR	3314	4	Electronics and Lab (Fall only)
____	MATH	2303	3	Linear Algebra

Sixth Semester - Spring				
			18	Hours
____	BUSI	3003	3	Foundations of Business for Engineers [2]
____	CEGR	4253	3	Microcomputer Design (Spring only)
____	EEGR	4283	3	Digital Signal Procecessing (Spring only)
____	MEGR	2013	3	Statics [1]
____	MATH		3	Math Elective [3]
____			3	Technical Elective [6]

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 [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 130

1: Minimum grade of 'C' required.
2: ENGR 4653 Advanced Engineering Analysis 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
6: Any 3000+ level approved engineering course

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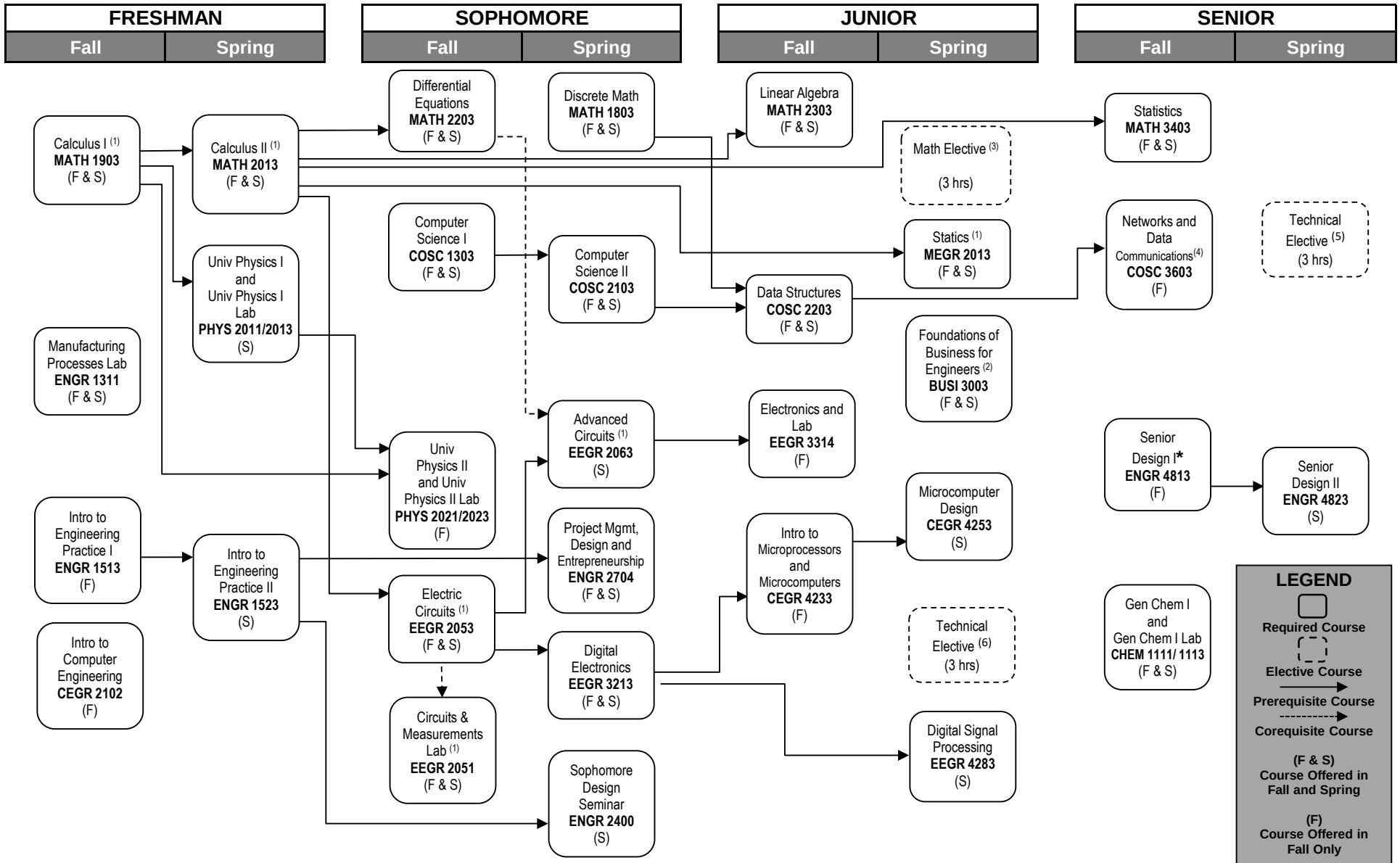
B.S., Engineering **Technical Course Sequence - Computer Concentration** **2018-2019**



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