

School of Engineering and Engineering Technology

Civil Engineering, B.S.

CIVIL ENGINEERING

(CEGR/BSCE)

2025-26

SUGGESTED COURSE SEQUENCE

First Semester - Fall			
	17 Hours		
___ BIBL	1033	3	Biblical Literature
___ CHEM	1111	1	General Chemistry I Lab
___ CHEM	1113	3	General Chemistry 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		
___ COSC	1303	3	Computer Science I
___ CEGR	1523	3	Introduction to CEE (Spring only)
___ ENGL	1023	3	English Composition II
___ ENGR	1311	1	Manufacturing Processes Lab
___ MATH	2013	3	Calculus II ⁽¹⁾
___ PHYS	2011	1	University Physics I Lab (Spring only)
___ PHYS	2013	3	University Physics I (Spring only)

Third Semester - Fall			
	16 Hours		
___ CEGR	2013	3	Civil Engineering Materials (Fall only)
___ COMM	1113	3	Intro to Speech Communication
___ MATH	2023	3	Calculus III
___ MEGR	2013	3	Statics ⁽¹⁾
___		4	Science Elective ⁽²⁾

Fourth Semester - Spring			
	17 Hours		
___ CEGR	2502	2	CEE Project Management (Spring only)
___ ENGR	2400	0	Sophomore Design Seminar (Spring only)
___ MATH	2203	3	Differential Equations
___ MEGR	3323	3	Mechanics of Materials ⁽¹⁾
___ THEO	2043	3	Biblical Theology for the Christian Life
___		3	CEE Skills Elective (Spring only)
___		3	Civic Engagement Elective

Fifth Semester - Fall			
	17 Hours		
___ CEGR	3213	3	Hydraulic Analysis (Fall only)
___ CEGR	3313	3	Structural Analysis (Fall only)
___ EVGR	3002	2	Sustainability and Stewardship (Fall only)
___ EVGR	3113	3	Environmental Engineering (Fall only)
___		3	Biblical Engagement Elective
___		3	Civic Engagement Elective

Sixth Semester - Spring			
	16 Hours		
___ CEGR	3913	3	Geotechnical Engineering (Spring only)
___ MATH	3403	3	Statistics
___		3	CEE Skills Elective (Spring only)
___		3	CEE Engineering Science Elective
___		4	CEE Design Elective

Seventh Semester - Fall			
	14 Hours		
___ CEGR	4001	1	Professional Licensing Prep (Fall only)
___ ENGR	4813	3	Senior Design I (Fall only)
___		4	CEE Design Elective
___		3	Humanities & Fine Arts Elective
___		3	Math or Science Elective ⁽³⁾

Eighth Semester - Spring			
	14 Hours		
___ CEGR	4501	1	CEE Professional Practice (Spring only)
___ ENGR	4823	3	Senior Design II (Spring only)
___		3	CEE Engineering Science Elective
___		4	CEE Design Elective
___		3	Theological Engagement Elective

TOTAL HOURS 128

1: Minimum grade of 'C' required.

2: See approved electives sheet for list of acceptable 4-hour basic science courses.

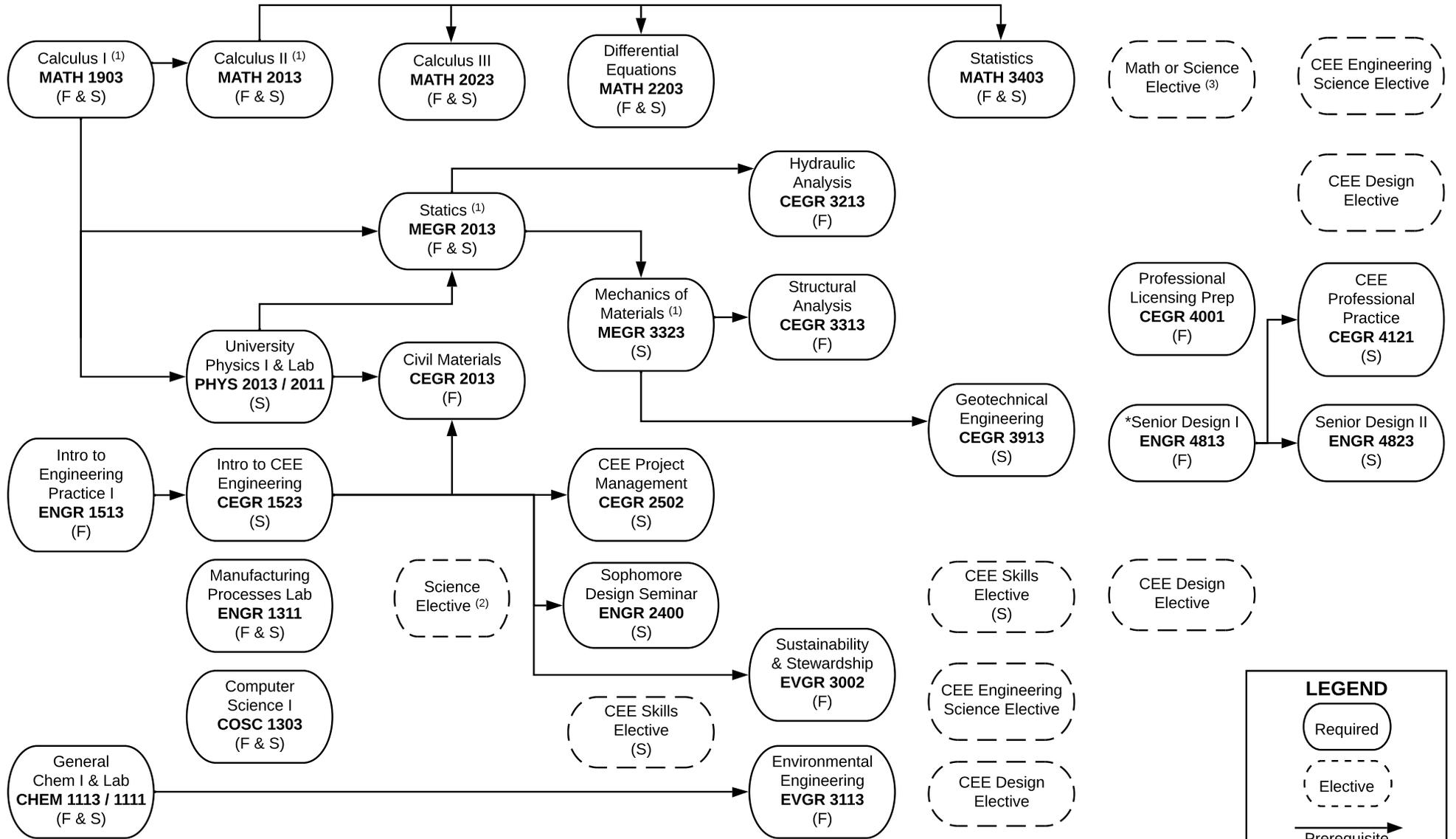
3: See approved electives sheet for list of acceptable 3-hour basic science or college-level mathematics courses.

CEE Design Elective Requirements for Optional Civil Focus Areas

STRUCTURAL ENGINEERING FOCUS			
CEGR	4324	4	Reinforced Concrete Design
CEGR	4834	4	Structural Steel Design
CEGR	4944	4	Advanced Loading and Wood Design

WATER RESOURCES ENGINEERING FOCUS			
CEGR	4224	4	Hydraulic Design
EVGR	4634	4	Water and Wastewater Design
CEGR	4744	4	Surface Water Hydrology

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



* 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