BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Catalogue

2020-2021

Student: _____ Date: _____

netID: _____ Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
CEMS 050 - CEMS First Year Seminar[1]	1		CE 003 - First Year Design Experience[1]	2	
CHEM 031 - General Chemistry I	4		CS 021 - Computer Programming I (QR)	3	
ENGR 002 - Graphical Communication	2		MATH 022 - Calculus II	4	
FWIL (ENGS 001/TAP/HCOL 085)[2]	3		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
MATH 021 - Calculus I	4		PHYS 031 - Physics for Engineers I	4	
General Education Elective[3]	3		Diversity 1 or 2[3]	3	
Total credits	*17*		*Total credits*	*16-17*	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 001 - Statics	3		ME 012 - Dynamics	3	
CE 010 - Geomatics	4		CE 132 - Environmental Systems	3	
MATH 121 - Calculus III	4		MATH 271 - Appl. Math. for Engr. & Sci.	3	
STAT 143 - Statistics for Engineers	3		MATH 122 - Applied Linear Algebra	3	
Diversity 1[3]	3		EE 075 - Electrical Circuits & Sensors	4	
Total credits	*17*		*Total credits*	*16*	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 100 - Mechanics of Materials	3		CE 101 - Materials & Structures lab	3	
CE 133 - Transportation Systems	3		GEOL 001, BIOL 001 or BIOL 002	4	
CE 160 - Hydraulics	3		CE 170 - Structural Analysis I	3	
CE 162 - Hydraulics Lab	2		CE 180 - Geotechnical Engineering	3	
CE 151 - Water & Wastewater Engr	3		CE 182 - Geotechnical Principles Lab	2	
			General Education Elective[3]	3	
Total credits	*14*		*Total credits*	*18*	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 185 - Capstone Design I	3		CE 186 - Capstone Design II	3	
Technical Elective[4]	3		CE Design Elective[5]	3	
CE Design Elective[5]	3		CE Elective[6]	3	
CE Design Elective[5]	3		CE Elective[6]	3	
General Education Elective[3]	3		CE Elective[6]	3	
Total credits	*15*		*Total credits*	*15*	

Minimum Total Credits Required for Degree: 128

1. CEMS 050 & CE 003 are degree requirements designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, EMGT, ENGR, ME) credits for these requirements.

2. Foundational Writing and Information Literacy (FWIL) is a University requirement. Students must take either ENGS 001 or HCOL 085 (only for students enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.

3. University & CEE General Education Requirements include: 15 credits of approved General Education (GenEd) electives including one 3-credit D1 course, a second 3-credit D1 or D2 course, and 3 credits each of Humanities and Social Sciences.

4. Technical Elective: All 100 level or above courses in engineering (BME, CE, EE, EMGT, ENGR, ME).

5. Design Electives: CE 172, CE 173, CE 241, CE 247, CE 253, CE 255, CE 256, CE 262, CE 263, CE 265, CE 273, CE 285, CE 286, CE 288 and some CE 295 (Special Topics) courses (consult advisor). At least one design elective must be from CE 172, CE 173, CE 241, and CE 286.

6. CE Electives: Any 200-level CE course, CE 172, CE 173, and EMGT 201.

N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Civil Engineering curriculum.