

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Catalogue

2018-2019

Student: _____

Date: _____

ID #: _____

Advisor: _____

Year 1

Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		PHYS 031 - Physics for Engineers I	4	
CHEM 031 - General Chemistry I	4		PHYS 030 - Prob. Solv. Session I [opt]	[1]	
FWIL ¹ (ENGS 001 / HCOL 085 / TAP)	3		CS 020 - Programming for Engineers	3	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
General Education Elective ²	3		CE 003 - Intro. Civil & Env. Engr.	2	
ENGR 050 - First Year Engineering Seminar	1		Diversity 1 or 2 ³ (D1 or D2 courses)	3	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>16-17</i>	

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 (D1 courses)	3		EE 075 - Electrical Circuits & Sensors	4	
<i>Total credits</i>	<i>17</i>		<i>Total credits</i>	<i>16</i>	

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 ²	3	
<i>Total credits</i>	<i>14</i>		<i>Total credits</i>	<i>18</i>	

Year 4

Semester 1	Cr	Status	Semester 2	Cr	Status
CE 172 - Structural Steel Design or CE 173 - Reinforced Concrete	3		CE 186 - Capstone Design II	3	
CE 185 - Capstone Design I	3		CE Design Elective ⁵	3	
CE Design Elective ⁵	3		CE Elective ⁶	3	
Technical Elective ⁴	3		CE Elective ⁶	3	
General Education Elective ²	3		CE Elective ⁶	3	
<i>Total credits</i>	<i>15</i>		<i>Total credits</i>	<i>15</i>	

Minimum Total Credits Required for Degree: 128

1. 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.

2. Required General Education (GenEd) Electives: 9 credits of approved GenEd electives.

3. Diversity courses are a University requirement. Students must take one three-credit D1 course and a second three-credit D1 or D2 course.

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

5. Design Electives: CE 238, CE 241, CE 256, CE 261, CE 262, CE 265, CE 273, CE 281, CE 284, CE 285, CE 286, CE 288 and some CE 295 (Special Topics) courses (consult advisor). CE 173 is a design elective if CE 172 has also been taken.

6. CE Electives: Any 200-level CE course.

N.B. The University's Sustainability (SU) and Quantitative Reasoning (QR) requirements are built into the Civil Engineering curriculum. CE 003, CE 132, CE 151, and CE 185 will count towards the SU requirement. The QR requirement is satisfied by any MATH course.