



Name \_\_\_\_\_ I.D. No. \_\_\_\_\_

## CIVIL ENGINEERING Curriculum Sheet

**Proposed CVE program Fall 2023 and later (changes indicated in red)**

<u>Fall Semester – Year 1</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 1</u>	<u>Cr.</u>	<u>Grade</u>
ENG 100 English I <b>OR</b> ENG 101 College Writing I	3	_____	ESC 102 Technical Writing	3	_____
MTH 181 Calculus I	4	_____	MTH 182 Calculus II	4	_____
CHM 261 General Chemistry I	3	_____	PHY 241 University Physics I	5	_____
			ESC 151/152-C Prog. or Prog. w. MATLAB***	3	_____
CHM 266 General Chemistry Lab I	1	_____	<b>CVE 170 Civil Engineering Graphics Lab</b>	<b>2</b>	<b>_____</b>
ESC 120 Intro. to Engineering Design	2	_____			
ESC 100 New Student Orientation*	1	_____	ESC 130 Engineering Co-op Orientation**	1	_____
<u>Fall Semester – Year 2</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 2</u>	<u>Cr.</u>	<u>Grade</u>
ESC 201 Statics	3	_____	ESC 211 Strength of Materials	3	_____
ESC 250 Differential Equations for Engrs.	3	_____	CVE 310 Strength of Materials Lab	2	_____
MTH 283 Multivariable Calculus for Engrs.	2	_____	CVE 360 Mechanics of Fluids and Basic Thermal Systems for Civil Engineers	4	_____
PHY 242 Univ. Physics II	5	_____	GEO 100 Introduction to Geology	3	_____
<b>CVE 211 Surveying</b>	<b>3</b>	<b>_____</b>	GEO 101 Geology Lab	1	_____
<b>CVE 212 Surveying Lab</b>	<b>2</b>	<b>_____</b>	ESC 310 Engineering Stats/ Probability	3	_____
<u>Fall Semester – Year 3</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 3</u>	<u>Cr.</u>	<u>Grade</u>
ESC 202 Dynamics	3	_____	CVE 322 Structural Steel Design	3	_____
CVE 312 Structural Analysis I	3	_____	CVE 331 Intro to Geotechnical Engineering	3	_____
CVE 361 Hydraulic Engineering	3	_____	CVE 332 Geotechnical Engineering Lab	2	_____
CVE 362 Hydraulics Lab	2	_____	CVE 461 Hydrologic Analysis	3	_____
CVE 371 Environmental Engineering I	3	_____	CVE 422 Reinforced Concrete Design	3	_____
CVE 374 Environmental Engineering Lab	2	_____	ESC 282 Engineering Economy		_____
<u>Fall Semester – Year 4</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester – Year 4</u>	<u>Cr.</u>	<u>Grade</u>
CVE 429 Foundation Engineering	3	_____	CVE 403 Construction Planning and Estimating	3	_____
CVE 446 Transportation Engineering	3	_____	CVE 427 Capstone Design (WAC)	2	_____
PHL 215 Engineering Ethics (WAC)	3	_____	CVE Tech Elective _____	3	_____
CVE 426 Preliminary Design (SPAC)	2	_____	Gen Ed Elective _____	3	_____
CVE Tech Elective _____	3	_____	Gen Ed Elective _____	3	_____
Gen Ed Elective _____	3	_____	Gen Ed Elective _____	3	_____

Minimum number of credits required for degree: 130 for non-transfer students; 129 for transfer students

**Please check Degree Audit in CampusNet for any curriculum discrepancies.**

\*Not required for transfer students

\*\*Optional course. Required for participation in co-op and internship programs.

\*\*\*Required for students beginning Fall 2018 and later

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Advisor \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_ I.D.#. \_\_\_\_\_

# CIVIL ENGINEERING

## Co-op Curriculum Sheet

<u>Year 1</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr.</u>	<u>Grade</u>
ENG 101 English I	3	_____	ESC 102 Technical Writing	3	_____	Work or school		_____
MTH 181 Calculus I	4	_____	MTH 182 Calculus II	4	_____			_____
CHM 261 Gen. Chemistry I	3	_____	PHY 241 Univ. Physics I	5	_____			_____
CHM 266 Gen. Chemistry Lab I	1	_____	ESC 151/152: C Program, or	3	_____			_____
ESC 120 Intro. to Engineering Design	2	_____	Programming w MATLAB					_____
ESC 100 New Student Orientation*	1	_____	<b>CVE 170 Civil Engineering Graphics Lab</b>	<b>2</b>	_____			_____
			ESC 130 Engineering Co-op Orientation**	1	_____			

<u>Year 2</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr.</u>	<u>Grade</u>
ESC 201 Statics	3	_____	ESC 211 Strength of Materials	3	_____	ESC 400 Co-op**	1	_____
ESC 250 Differential Equations for Engrs.	3	_____	CVE 310 Strength of Materials Lab	2	_____			_____
MTH 283 Multivariable. Calculus for Engrs.	2	_____	CVE 360 Mechanics of Fluids/ Thermal Systems	4	_____			_____
PHY 242 Univ. Physics II	5	_____	GEO 100 Intro to Geology	3	_____			_____
<b>CVE 211 Surveying</b>	<b>2</b>	_____	GEO 101 Geology Lab	1	_____			_____
<b>CVE 212 Surveying Lab</b>	<b>1</b>	_____	ESC 310 310 Engineering Stats/Probability	3	_____			_____

<u>Year 3</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester.</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr.</u>	<u>Grade</u>
CVE 312 Structural Analysis I	3	_____	ESC 300 Co-op**	1	_____	ESC 202 Dynamics	3	_____
CVE 361 Hydraulic Engr.	3	_____				PHL 215 Engineering Ethics (WAC)	3	_____
CVE 362 Hydraulics Lab	2	_____						
CVE 371 Environmental Engr.	3	_____						
CVE 374 Environ. Engr. Lab	2	_____						

<u>Year 4</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr.</u>	<u>Grade</u>
ESC 300 Co-op**	1	_____	CVE 322 Structural Steel	3	_____	ESC 400	1	_____
			CVE 331 Intro to Geotechnical Engineering	3	_____			_____
			CVE 332 Geotechnical Engineering Lab	2	_____			_____
			CVE 461 Hydrologic Analysis	3	_____			_____
			CVE 422 Reinforced Concrete	3	_____			_____
			ESC 282 Engr Economy	3	_____			_____

<u>Year 5</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr.</u>	<u>Grade</u>
CVE 429 Foundation Engr.	3	_____	CVE 403 Construct. Planning and Estimating	3	_____			_____
CVE 446 Transportation Engr.	3	_____	CVE 427 Capstone Design (WAC)	2	_____			_____
CVE 426 Preliminary Design (SPAC)	2	_____	CVE Tech Elective_____	3	_____			_____
Gen Ed Elective_____	3	_____	Gen Ed Elective_____	3	_____			_____
Gen Ed Elective_____	3	_____	Gen Ed Elective_____	3	_____			_____

Minimum number of credits required for degree: 135 for non-transfer students; 134 for transfer students

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*Revised 2/7/2022*