## BACHELOR OF SCIENCE IN CIVIL ENGINEERING CURRICULUM OUTLINE - CLASS OF 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL		SPRING		SUMMER 1		SUMMER 2
	MATH1341	Calculus 1 for Engrs. 4	MATH1342	Calculus 2 for Engrs. 4				
	CHEM1151	General Chem. for Engrs. 4	PHYS1151	Physics 1 for Engrs. 3				
Year 1	CHEM1153	Recitation for CHEM1151 0	PHYS1152	Physics 1 Lab 1		Vacation		Vacation
10011	GE 1501	Cornerstone of Eng'g. 1 4	PHYS1153	ILS for PHYS1151		vacation		Vacation
	GE 1000	Intro. to Eng'g. 1	GE 1502	Cornerstone of Eng'g. 2				
	ENGW1111	First Year Writing 4	LICOLIVE	General Elective 4				
	MATH2321	Calculus 3 for Engrs. 4	1407111120112	Diff. Eq./Lin. Alg. 4				
	ECON1115	Macro or Micro Economics 4	EITC: EGGG	Intro to Engineering Co-op 1				
	or 1116		CIVE2260	Materials for the Built Environ. 4				
Year 2 (AA)	CIVE2221		CIVE2261	Lab for 2260 1		Vacation		Со-ор
	CIVE2222		CIVE2320	Struct. Analysis 4				·
	<u>CIVE2334</u>		CIVE2321	Recitation for CIVE2320 0				
		Principles, Technology, and	GE 3300	Energy Systems: Science, 4				
	NAATU2224	Sustainability  Calculus 3 for Engrs. 4		Tech., & Sustainability				
	MATH2321 ENCP2000	Calculus 3 for Engrs. 4 Intro to Engineering Co-op 1						
	CIVE2221	Statics and Solid Mechanics 4						
	CIVE2221 CIVE2222	Recitation for CIVE2221 0						
Year 2 (BB)	CIVE2222 CIVE2260	Materials for the Built Environ. 4		Со-ор		Со-ор		Vacation
rear 2 (DD)	CIVE2261	Lab for 2260		со ор		CO OP		Vacation
	CIVE2334	Environmental Engineering: 4						
	CIVEZSSA	Principles, Technology, and						
		Sustainability						
		· · · · · · · · · · · · · · · · · · ·	CIVE2331	Fluid Mechanics and Hydraulics 4	CIVE2324	Concrete Str. Design*	4	
Year 3 (AA)			CIVE2340	Geotechnical Engineering 4	Elective		4	
		Со-ор	CIVE2341	Lab for CIVE 2340 1				Со-ор
			Elective	Technical Elective 4				
			Elective	Science Elective 4				
	GE 3300	Energy Systems: Science, 4					MATH2341	Diff. Eq./Lin. Alg. 4
		Tech., & Sustainability					CIVE2340	Geotechnical Engineering 4
	CIVE2320	Struct. Analysis 4					CIVE2341	Lab for CIVE 2340 1
Year 3 (BB)	<u>CIVE2321</u>	Recitation for CIVE2320 0		Со-ор		Со-ор		
	<u>CIVE2331</u>	Fluid Mechanics and Hydraulics 4						
	ECON1115	Macro- or Microeconomics 4						
	<u>or 1116</u>				Et	A 151 11		
			ENCP3000 CIVE3464	5 5	Elective		4	
V 4 (4.4)		Co.on			Elective	General Elective	4	Co.on
Year 4 (AA)		Со-ор	Elective Elective	Project Elective 4 Technical Elective 3				Со-ор
			ENGW3302	Adv. Writing for Prof.**				
	CIVE2324	Concrete Str. Design* 4	LIVO VV 33UZ	Adv. Wilting for FIOI. 4			Elective	General Elective 4
	ENCP3000	Prof. Issues in Engineering 1					Elective	General Elective 4
Year 4 (BB)	Elective	Technical Elective 3		Со-ор		Со-ор	Liective	General Elective 4
	Elective	Science Elective 4						
		Adv. Writing for Prof.** 4						
			CIVE 476x	Sr. Design Project 5				
Year 5 (AA)	Со-ор		Elective	General Elective 4				
			et					
			Elective	Technical Elective 4				
			Elective	General Elective 4	1			
	CIVE3464		CIVE 476x	Sr. Design Proj 5				
Year 5 (BB)	Elective	General Elective 4	Elective	General Elective 4				
rear 5 (BB)	Elective	Technical Elective 4	Elective	General Elective 4				
	Elective	Project Elective 4	Elective	Technical Elective 4				

Revised version, 02/23/2018

## BS in Civil Engineering - Requirements:

General Electives: Six (6) courses are required.

General electives are academic, non-remedial, non-repetitive courses.

**Nupath requirements:** Interpreting Culture (IC) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use general electives to do so.

Science Elective: One (1) course is required.

See the undergraduate catalog for the list of approved Science Electives.

Technical Electives: Three (3) courses are required.

See the undergraduate catalog for the list of Technical Electives.

Project Elective: One (1) course required.

See the undergraduate catalog for the list of Project Electives.

Senior Design Project (Capstone elective): One (1) course required, either CIVE 4765 (Environmental), CIVE 4767 (Structural), or CIVE 4768 (Transportation)

Course sequence may be changed, subject to prerequisite requirements.

Please consult with your Academic Advisor, found here.

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

 $<sup>{\</sup>rm *CIVE3425~Steel~Design~is~an~acceptable~substitution~for~CIVE2324~Concrete~Design.}$ 

<sup>\*\*</sup>ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.