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

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL			Sample Only – Actual Curriculum Sequence May SPRING		SUMMER 1			SUMMER 2	
	MATH1342	Calculus 2 for Engrs. * 4	MATH2321		4	<u>Elective</u>		4	SOMMEN 2	_
] ]	IVIATITI342	Calculus 2 IOI Eligis. 4	IVIATR2321	Calculus 3 for Engrs.	4	CIVE2221		*		
	CHEM1151	General Chem. for Engrs. 4	DI IV.C4 4 E 4	N : 45 5	_	CIVEZZZI	Statics and Solid	4		
			PHYS1151	Physics 1 for Engrs.	3		Mechanics			
Year 1	CHEM1153	Recitation for CHEM1151 0	5111/64453	DI : 41 I	_	CII (52222	Dit-ti f CN/52224		Vacation	
	GE 1501	Community of Finals 4	PHYS1152	Physics 1 Lab		<u>CIVE2222</u>	Recitation for CIVE2221	الا		
	GE 1000	Cornerstone Eng'g. 1 4 Intro. to Eng. 1	PHYS1153	ILS for PHYS1151	1					
		0	GE 1502	Cornerstone of Eng'g. 2						
	ENGW1111	Thist real Writing	Elective	General Elective	4	CII (52224		_		_
Year 2 (MC)	MATH2341	Diff. Eq./Lin. Alg. 4 Macro or Micro Economics 4	ENCP2000	Intro. to Eng'g. Co-op	1	CIVE2324 Elective		4		
	ECON1115	Macro or Micro Economics 4	CIVE2320	Structural Analysis	0	Elective	General Elective	*		
	or 1116 CIVE2260	Materials for the Built Environ. 4	CIVE2321	Recitation for CIVE2320	4					
			GE 3300	Energy Systems: Science,	4					
	CIVE2261	Lab for 2260 1		Tech., & Sustainability					6	
	CIVE2334	Environmental Engineering: 4	Elective	General Elective	4				Со-ор	
		Principles, Technology, and	<u>CIVE2331</u>	Fluid Mechanics and Hydraulics	4					
		Sustainability	CII (522.40	OR						
			<u>CIVE2340</u>	Geotechnical Engineering	4					
			CIVE2341	Lab for CIVE 2340	1					
		D: (C = /L: A)	(prio	ritize Project Elective prerequisite)						_
Year 2 (MD)	MATH2341	Diff. Eq./Lin. Alg. 4							ctive General Elective	4
	ENCP2000	Intro. to Eng'g. Co-op 1						Ele	ctive General Elective	4
	CIVE2320	Struct. Analysis 4								
	CIVE2321	Recitation for CIVE2320 0		6			C			
	<u>CIVE2260</u>	Materials for the Built Environ. 4		Со-ор			Со-ор			
	CIVE2261	Lab for 2260 1								
	CIVE2334	Environmental Engineering: 4								
		Principles, Technology, and								
		Sustainability			_					_
Year 3 (MC)	ENGW3302	Adv. Writing for Prof.***	Elective	Technical Elective		Elective		4		
			Elective	Project Elective	4	Elective	General Elective	4		
		Со-ор	CIVE3464	Prob./Eng'g. Econ.	4					
			<u>CIVE2331</u>	Fluid Mechanics and Hydraulics	4				Со-ор	
				<u>OR</u>						
			CIVE2340	Geotechnical Engineering	4					
			<u>CIVE2341</u>	Lab for CIVE 2340	1					
	CF 2200	5 6 1 6 :		ver was not taken in Spring of Year 2)	4			CII	(52242	_
	GE 3300	· ,	ENGW3302	Adv. Writing for Prof.***	4				<u>/E2340</u> Geotechnical Engineering /E2341 Lab for CIVE 2340	4
	CIVE2324	Tech., & Sustainability Concrete Str. Design**							<u>/E2341</u> Lab for CIVE 2340 ctive General Elective	1
Year 3 (MD)	CIVE2324 CIVE2331	——————————————————————————————————————					Со-ор	Ele	ctive General Elective	4
		Fluid Mechanics and Hydraulics 4 Macro- or Microeconomics 4		Co-op			СООР			
	ECON1115	Wacro- or wicroeconomics 4								
	<u>or 1116</u>									
			ENCP3000	Prof. Issues in Eng'g.	1					٩
Year 4 (MC)			Elective	Technical Elective	3					
		Со-ор	Elective	Technical Elective	4					
		со ор	Elective	Science Elective	4					
			CIVE 476x	Sr. Design Project	5					
	CIVE3464	Prob./Eng'g. Econ. 4	CIVE 476x	Sr. Design Project	5					
Year 4 (MD)	ENCP3000	Prof. Issues in Eng'g. 1	Elective	Technical Elective	4					
	Elective	Technical Elective 4	Elective	General Elective	4					
	Elective	Project Elective 4	Elective	Technical Elective	3					
	Elective	Science Elective 4	LICCLIVE	reclinical Elective	3					
	FIECTIVE	Science Elective 4								

<sup>\*</sup> Students will need to have Advanced Standing Credit (such as Advanced Placement, International Baccalaureate or college credit) for Math 1341 Calculus 1. - see academic advisor

## BS in Civil Engineering - Requirements:

General Electives: Six (6) courses are required.

 $\label{thm:constraints} \mbox{General electives are academic, non-remedial, non-repetitive courses.}$ 

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.  $\label{eq:energy} % \begin{center} \begin{$ 

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>CIVE3425 Steel Design may be substituted for CIVE2324 Concrete Design.

<sup>\*\*</sup> Students will need to take Advanced Writing in the Professions online during this co-op. ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.