BACHELOR OF SCIENCE IN CIVIL ENGINEERING

CURRICULUM OUTLINE - CLASS OF 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL		SPRING			SUMMER 1			SUMMER 2	
	CHEM1151	General Chem. for Engrs.	GE1502	Cornerstone of Eng'g. 2	4	CIVE2221	Statics and Solid	4			
							Mechanics				
	CHEM1153	Recitation for CHEM1151	MATH2321	Calculus 3 for Engrs.	4	CIVE2222	Recitation for CIVE2221	0			
Year 1	ENGW1111	First Year Writing	PHYS1151	Physics 1 for Engrs.	3	Elective	General Elective	4		Vacation	
	GE1000	Intro. to Eng.	PHYS1152	Physics 1 Lab	1						
	GE1501	Cornerstone Eng'g. 1	PHYS1153	ILS for PHYS1151	1						
	MATH1342	Calculus 2 for Engrs.	Elective	General Elective	4						
	CIVE2260	Materials for the Built Environ.		Structural Analysis		*CIVE2324	Concrete Str. Design	4			
	CIVE2261	Lab for 2260	CIVE2321	Recitation for CIVE2320	0	Elective	General Elective	4			
	CIVE2334	Environmental Engineering:	1								
		Principles, Technology, and Sustainability	Chaosa Ona In	prioritize Project Elective prereq):							
	ECON1115	Macro or Micro Economics		Fluid Mechanics and Hydraulics	4						
	or ECON111		<u> </u>	OR						Со-ор	
Year 2	MATH2341	Diff. Eq./Lin. Alg.	CIVE2340	Geotechnical Engineering	4					·	
MC		-	CIVE2341	Lab for CIVE 2340	1						
			ENCP2000	Intro. to Eng'g. Co-op	1						
			GE3300	Energy Systems: Science, Tech, &	4						
				Sustainability							
	CIVE2260	Materials for the Built Environ.	Elective	General Elective	4				Elective	General Elective	4
	CIVE2261	Lab for 2260							Elective	General Elective	4
	CIVE2320	Struct. Analysis	1						Licotive	General Elective	
Year 2	CIVE2321	Recitation for CIVE2320									
	CIVE2334	Environmental Engineering:	ı	Со-ор			Со-ор				
MD		Principles, Technology, and									
		Sustainability									
	ENCP2000	Intro. to Eng'g. Co-op	L								
	**ENGW3302	Diff. Eq./Lin. Alg. Adv. Writing for Prof.	Chassa One (n	prioritize Project Elective prereq):		Elective	General Elective	4			
	ENGW3302	(to be taken online)	CIVE2331	Fluid Mechanics and Hydraulics		Elective	General Elective	4			
		(to be taken omme)	CIVEZSSI	OR	Ė	Licotive	General Elective				
			CIVE2340	Geotechnical Engineering	4					C	
		Со-ор	CIVE2341	Lab for CIVE 2340	1					Со-ор	
Year 3		со-ор	CIVE3464	Prob./Eng'g. Econ.	4						
MC			Elective	Project Elective	4						
	*00/50004	0 10 0	Elective	Technical Elective	4				00/50040	0 . 1 . 15 .	
	*CIVE2324 CIVE2331	Concrete Str. Design Fluid Mechanics and Hydraulics	**ENGW3302	Adv. Writing for Prof. (to be taken online)	4				CIVE2340 CIVE2341	Geotechnical Engineer Lab for CIVE 2340	ir 4
	ECON1115	Macro- or Microeconomics		to be taken online)					Elective	General Elective	4
Year 3	or ECON111						Со-ор		2.000,00	CC.ICIUI EICCUVC	-
	GE3300	Energy Systems: Science, Tech, &	1	Со-ор							
		Sustainability									
			CIVE 476x	Sr. Design Project	5						
Year 4			ENCP3000	Prof. Issues in Eng'g.	1						
MC		Со-ор	Elective	Technical Elective	3						
			Elective	Technical Elective	4						
	ENCP3000	Prof. Issues in Eng'g.	Elective CIVE 476x	Science Elective Sr. Design Project	5						
Year 4	CIVE3464	Prob./Eng'g. Econ.	Elective	General Elective	4						
MD	Elective	Project Elective	Elective	Technical Elective	4						
	Elective	Technical Elective	Elective	Technical Elective	3						
	Elective	Science Elective	l .							Revised 6/	

Revised 6/5/20

Students will need to have Advanced Standing Credit (such as AP, IB or college credit) for Math 1341 Calculus 1 - see advisor

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,

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

 $\textbf{Project Elective:} \ \mathsf{One} \ \textbf{(1)} \ \mathsf{course} \ \mathsf{required}.$

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)

Please consult with your Academic Advisor, found here.

Course sequence may be changed, subject to prerequisites.

Degree requirements can be found in the academic catalog and DARS provides a degree audit for students.

^{*}CIVE3425 Steel Design may be substituted for CIVE2324 Concrete Design.

^{**}ENGW3315 is an acceptable substitution.