

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2025**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	CHEM1151 General Chem. for Engrs. 4	GE1502 Cornerstone of Eng'g. 2 4	Vacation	Vacation
	CHEM1153 Recitation for CHEM1151 0	MATH1342 Calculus 2 for Engrs. 4		
	ENGW1111 First Year Writing 4	PHYS1151 Physics 1 for Engrs. 3		
	GE1000 Intro. to Eng'g. 1	PHYS1152 Physics 1 Lab 1		
	GE1501 Cornerstone of Eng'g. 1 4	PHYS1153 ILS for PHYS1151 1		
MATH1341 Calculus 1 for Engrs. 4	Elective General Elective 4			
Year 2 AA	CIVE2221 Statics and Solid Mechanics 4	CIVE2260 Materials for the Built Environ. 4	Vacation	Co-op
	CIVE2222 Recitation for CIVE2221 0	CIVE2261 Lab for 2260 1		
	CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4	CIVE2320 Struct. Analysis 4		
	ECON1115 Macro or Micro Economics 4	CIVE2321 Recitation for CIVE2320 0		
	or ECON1116 MATH2321 Calculus 3 for Engrs. 4	ENCP2000 Intro. to Eng'g. Co-op 1		
	GE3300 Energy Systems: Science, Tech., & Sustainability 4			
	MATH2341 Diff. Eq./Lin. Alg. 4			
Year 2 BB	CIVE2221 Statics and Solid Mechanics 4	Co-op	Co-op	Vacation
	CIVE2222 Recitation for CIVE2221 0			
	CIVE2260 Materials for the Built Environment 4			
	CIVE2261 Lab for 2260 1			
	CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4			
ENCP2000 Intro. to Eng'g. Co-op 1				
MATH2321 Calculus 3 for Engrs. 4				
Year 3 AA	Co-op	CIVE2331 Fluid Mechanics and Hydraulics 4	*CIVE2324 Concrete Str. Design 4	Co-op
		CIVE2340 Geotechnical Engineering 4	Elective General Elective 4	
		CIVE2341 Lab for CIVE 2340 1		
		Elective Technical Elective 4		
		Elective Science Elective 4		
Year 3 BB	CIVE2320 Struct. Analysis 4	Co-op	Co-op	CIVE2340 Geotechnical Engineering 4
	CIVE2321 Recitation for CIVE2320 0			CIVE2341 Lab for CIVE 2340 1
	CIVE2331 Fluid Mechanics and Hydraulics 4			MATH2341 Diff. Eq./Lin. Alg. 4
	ECON1115 Macro or Micro Economics 4			
	or ECON1116 GE 3300 Energy Systems: Science, Tech., & Sustainability 4			
Year 4 AA	Co-op	CIVE3464 Prob./Eng'g. Econ. 4	Elective General Elective 4	Co-op
		ENCP3000 Prof. Issues in Eng'g. 1	Elective General Elective 4	
		**ENGW3302 Adv. Writing for Prof. 4		
		Elective Project Elective 4		
		Elective Technical Elective 3		
Year 4 BB	*CIVE2324 Concrete Str. Design 4	Co-op	Co-op	Elective General Elective 4
	ENCP3000 Prof. Issues in Eng'g. 1			Elective General Elective 4
	**ENGW3302 Adv. Writing for Prof. 4			
	Elective Technical Elective 3			
	Elective Science Elective 4			
Year 5 AA	Co-op	CIVE 476x Sr. Design Project 5		
		Elective Technical Elective 4		
		Elective General Elective 4		
		Elective General Elective 4		
		Elective General Elective 4		
Year 5 BB	CIVE3464 Prob./Eng'g. Econ. 4	CIVE 476x Sr. Design Proj 5		
	Elective Project Elective 4	Elective Technical Elective 4		
	Elective Technical Elective 4	Elective General Elective 4		
	Elective General Elective 4	Elective General Elective 4		
	Elective General Elective 4	Elective General Elective 4		

Revised 5/8/20

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

**ENGW3315 is an acceptable substitution.

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

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.

[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.