

COMBINED MAJOR IN CIVIL ENGINEERING AND ARCHITECTURAL STUDIES

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 Chemistry for Engineers 4	ARCH1110 Fundamental Architectural Representation 4	MATH2321 Calculus 3 for Science and Eng 4	Vacation
	CHEM1153 Recitation for CHEM 1151 0	ARCH1120 Fundamental Architectural Design 6	PHYS1151 Physics for Engineering 1 3	
	ENGW1111 First-Year Writing 4	GE1502 Cornerstone of Engineering 2 4	PHYS1152 Lab for PHYS 1151 1	
	GE1000 Introduction to the Study of Engineer Cornerstone of Engineering 1 1	MATH1342 Calculus 2 for Science and Engineerin 4	PHYS1153 ILS for PHYS 1151 1	
	GE1501 4			
	MATH1341 Calculus 1 for Science and Engineerin 4			
Year 2 (AA)	ARCH1310 Buildings and Cities, A Global History 4	CIVE2260 Materials for the Built Environment 4	Vacation	Co-op
	ARCH1311 recitation for ARCH1310 0	CIVE2261 Lab for 2260 1		
	ARCH2130 Site, Space and Program 6	CIVE2320 Structural Analysis 4		
	CIVE2221 Statics and Solid Mechanics 4	CIVE2321 Recitation for CIVE2320 0		
	CIVE2222 Recitation for CIVE 2221 0	CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4		
	MATH2341 Differential Equations and Linear Algebra for Engineering 4	ENCP2000 Introduction to Engineering Co-op Ed 1		
	GE3300 Energy Systems: Science, Technology, and Sustainability 4			
Year 3 (AA)	Co-op	ARCH2340 Modern Architecture 4	*CIVE2324 Concrete Structure Design 4	Co-op
		ARCH2341 Recitation for ARCH2340 0	Elective Science Elective 4	
		CIVE2331 Fluid Mechanics and Hydraulics 4		
		CIVE2340 Geotechnical Engineering 4		
		CIVE2341 Lab for CIVE 2340 1		
	Elective Technical Elective 4			
Year 4 (AA)	Co-op	ARCH2140 Urban Institutions 6	Vacation	**ENGW330 : Advanced Writing Tech Prof 4
		ARCH3210 Environmental Systems 4		(to be taken online)
		ARCH 3211 Recitation for ARCH3210 0		
		CIVE3464 Probability and Engineering Economy for Civil Engineering 4		
		ENCP3000 Professional Issues in Engineering 1		
Elective Project Elective 4				
Year 5 (AA)	Co-op	CIVE4767 Sr. Design Project - Structural 5		
		Elective Technical Elective 3		
		Elective Arch Elective 4		
		Elective Arch 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:

Nupath requirements: For this combined major, NUPath requirements are satisfied in several courses across the program and by required courses in the combined major.

Science Elective: One (1) course is required.

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

Technical Electives: Two (2) courses are required.

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

Project Elective: One (1) course required.

See the undergraduate catalog for the list of Project Electives.

Senior Design Project (Capstone): CIVE 4767 (Structural)

Architectural Studies - Requirements:

Arch Electives: Two (2) courses are required.

ARCH 3450	Advanced Architectural Representation
ARCH 3370	Topics in Architectural History
ARCH 5115	Options Studio
ARCH 5220	Integrated Building Systems
ARCH 5310	Design Tactics