

**COMBINED MAJOR IN CIVIL ENGINEERING AND ARCHITECTURAL STUDIES**

**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
Year 1	<a href="#">CHEM1151</a> General Chemistry for Engineers 4	<a href="#">ARCH1110</a> Fundamental Architectural Representation 4	<a href="#">MATH2321</a> Calculus 3 for Science and Eng 4	Vacation
	<a href="#">CHEM1153</a> Recitation for CHEM 1151 0	<a href="#">ARCH1120</a> Fundamental Architectural Design 6	<a href="#">PHYS1151</a> Physics for Engineering 1 3	
	<a href="#">ENGW1111</a> First-Year Writing 4	<a href="#">GE1502</a> Cornerstone of Engineering 2 4	<a href="#">PHYS1152</a> Lab for PHYS 1151 1	
	<a href="#">GE1000</a> Introduction to the Study of Engineer 1	<a href="#">MATH1342</a> Calculus 2 for Science and Engineerin 4	<a href="#">PHYS1153</a> ILS for PHYS 1151 1	
	<a href="#">GE1501</a> Cornerstone of Engineering 1 4			
	<a href="#">MATH1341</a> Calculus 1 for Science and Engineerin 4			
Year 2 MC	<a href="#">ARCH1310</a> Buildings and Cities, A Global History 4	<a href="#">ARCH2340</a> Modern Architecture 4	<a href="#">*CIVE2324</a> Concrete Structure Design 4	Co-op
	<a href="#">ARCH1311</a> Recitation for ARCH1310 0	<a href="#">ARCH2341</a> Recitation for ARCH2340 0	<a href="#">GE3300</a> Energy Systems: Science, Technology, and Sustainability 4	
	<a href="#">ARCH2130</a> Site, Space and Program 6	<a href="#">CIVE2260</a> Materials for the Built Environment 4		
	<a href="#">CIVE2221</a> Statics and Solid Mechanics 4	<a href="#">CIVE2261</a> Lab for 2260 1		
	<a href="#">CIVE2222</a> Recitation for CIVE 2221 0	<a href="#">CIVE2320</a> Structural Analysis 4		
	<a href="#">MATH2341</a> Differential Equations and Linear Algebra for Engineering 4	<a href="#">CIVE2321</a> Recitation for CIVE2320 0		
		<a href="#">CIVE2334</a> Environmental Engineering: Principles, Technology, and Sustainability 4		
	<a href="#">ENCP2000</a> Introduction to Engineering Co-op Ed 1			
Year 3 MC	Co-op	<a href="#">ARCH2140</a> Urban Institutions 6	<a href="#">**ENGW3302</a> Advanced Writing Tech Prof 4	Vacation
		<a href="#">CIVE2331</a> Fluid Mechanics and Hydraulics 4		
		<a href="#">CIVE2340</a> Geotechnical Engineering 4		
		<a href="#">CIVE2341</a> Lab for CIVE 2340 1		
		Elective Technical Elective 4		
Year 4 MC	<a href="#">CIVE3464</a> Probability and Engineering Economy for Civil Engineering 4	<a href="#">ARCH3210</a> Environmental Systems 4		
	<a href="#">ENCP3000</a> Professional Issues in Engineering 1	<a href="#">ARCH3211</a> Recitation for ARCH3210 0		
	Elective Technical Elective 4	<a href="#">CIVE4767</a> Sr. Design Project - Structural 5		
	Elective Project Elective 4	Elective Arch Elective 4		
	Elective Arch Elective 4	Elective Science 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
- ARCH 3370                      Advanced Architectural Representation
- ARCH 5115                    Topics in Architectural History
- ARCH 5220                    Options Studio
- ARCH 5310                    Integrated Building Systems