COMBINED MAJOR--BACHELOR OF SCIENCE IN CIVIL ENGINEERING AND ARCHITECTURAL STUDIES

Curriculum Outline - 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL	1	SPRING			SUMMER 1		SUMMER 2
	MATH1341	Calculus 1 for Science and	4 MATH1342	Calculus 2 for Science and Engineering	4	PHYS1151	Physics for Engineering 1	3	
		Engineering							
	CHEM1151	General Chemistry for Engineers	4 <u>GE 1502</u>	Cornerstone of Engineering 2	4	PHYS1152	Lab for PHYS 1151	1	
Year 1	CHEM1153	Recitation for CHEM 1151	0 <u>ARCH1110</u>	Fundamental Architectural	4	PHYS1153	ILS for PHYS 1151	1	Vacation
	GE 1501	Cornerstone of Engineering 1	4 ARCH1120	Representation Fundamental Architectural Design	,	MANTHERE	Calculus 3 for Science and Eng	4	
	GE 1000	Introduction to the Study of	4 ARCHII20	rundamentai Architecturai Design	0	IVIA I FIZ 3 Z I	Calculus 3 for Science and Eng	4	
	GE 1000	Engineering	1						
	ENGW1111	First-Year Writing	4						
	CIVE2221	Statics and Solid Mechanics	4 CIVE2334	Environmental Engineering: Principles,	4				
				Technology, and Sustainability					
	CIVE2222	Recitation for CIVE 2221	0 ENCP2000	Intro to Engineering Co-op	1				
	MATH2341	Differential Equations and Linear	4 <u>CIVE2260</u>	Materials for the Built Environment	4				
		Algebra for Engineering							
Year 2 (AA)							Vacation		Со-ор
	ARCH2130	Site, Space and Program	6 <u>CIVE2261</u>	Lab for 2260	1				
	ARCH1310	Buildings and Cities, A Global	4 <u>CIVE2320</u>	Structural Analysis	4				
	ARCH1311	History recitation for ARCH1310	0 CIVE2321	Recitation for CIVE2320	0				
	ARCH1311	recitation for ARCH1310	GE 3300	Energy Systems: Science, Technology,	4				
			GE 3300	and Sustainability	7				
			CIVE2331	Fluid Mechanics and Hydraulics	4	CIVE2324	Concrete Structure Design*	4	
			CIVE2340	Geotechnical Engineering	4	Elective	Science Elective	4	
			CIVE2341	Lab for CIVE 2340	1				
Year 3 (AA)		Со-ор	Elective	Technical Elective 1 of 2	4				Со-ор
			ARCH2340	Architecture, Modernity, and the City,	4				
				1910 to 1980					
			ARCH2341	recitation for ARCH2340					
			ENCP 3000	Professional Issues in Engineering	1				ENGW3302 Advanced Writing Tech 4
Year 4 (AA)	Со-ор		CIVE3464	Probability and Engineering Economy					Prof** (ONLINE)
			CIVE3464	for Civil Engineering	4				
			Elective	Project Elective	1		Vacation		
			ARCH3210	Environmental Systems	4				Со-ор
			ARCH3211	recitation for ARCH3210					
			ARCH2140	Urban Institutions	6				
			CIVE4767	Sr. Design Project - Structural	5				
Year 5 (AA)		Со-ор	Elective	Technical Elective 2 of 2	3				
.cai J (AA)		со-ор		Arch Elective 1 of 2*	4				
				Arch Elective 2 of 2*	4				Povisod version 02/14/2010

Revised version, 02/14/2019

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. $\label{eq:catalog} % \begin{center} \begin{c$

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

Note:

1. Students who wish to be considered for the two-year Master of Architecture Program at Northeastern SHOULD take ARCH 3450 as an elective and SHOULD NOT take ARCH 5115 or ARCH 5220

2. Also students MUST have satisfied the Structural Systems (ARCH 5230) requirement. At Northeastern's CEE this can be achieved by taking three courses, as follows:

Required analysis courses (including their corresponding recitations):

CIVE2221 Statics and Solid Mechanics
CIVE2320 Structural Analysis

At least one design course from the following:
CIVE2324 Concrete Structure Design*
CIVE3425 Steel Structure Design

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.

^{*}CIVE3425 Steel Structure Design is an acceptable substitution for CIVE2324 Concrete Structure Design.

^{**}ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.