

Navajo Technical University

Name: _____

ID#: _____

Bachelor of Science Degree – Civil Engineering (122 Credits)

A bachelor's degree in civil engineering requires 124 credit hours. It is designed for a four-year program of study. The minimum credit load for a full-time student is 12 credit hours per semester. A student must complete general program courses within the first three years of study with a grade point average of 2.0 or better before taking upper-level core courses (300 and 400-level). To complete the program within four years, a credit load of 15 to 18 credits per semester is recommended. This time can be reduced by attending summer sessions and/or intersessions.

Semester		Credits	Prerequisites	Semester/Transfer	Grade
Semester ONE		15			
ENGL 1110	Composition I	3	ENGL100		
MATH1510	Calculus I	4	MATH1230 & MATH1240		
CHEM 1120C	Introduction to Chemistry	4			
ENGR 130	Engineering Graphics	3			
SSC 100	College Success Skills	1			
Semester TWO		17			
ENGL 1120	Composition II	3	ENGL1110 or ENGL 1210		
CS 101	Programming I	3			
CHEM1225C	General Chemistry II	4	CHEM1217C		
PHYS 1230C	Algebra Based Physics I	4	MATH1215		
ENGR 103	Introduction to Engineering	3	MATH1215		
Semester THREE		14			
MATH 1520	Calculus II	4	MATH 1510		
ENGL 2310	Introduction to Creative Writing	3			
NAVA 1110	Navajo I	4			
IE 213	Structure and Properties of Materials	3	PHYS 1230C & CHEM 1120C		
Semester FOUR		16			
CHEM2130C	Organic Chemistry I	4	CHEM1225C		
IE 243	Strength of Materials	3	IE 213		
SOCI 1110	Introduction to Sociology	3			
ENGR XX	AI and Machine Learning	3			
Semester FIVE		14			
MATH 2410	Differential Equations	4	MATH 1520		
ENGR 143	Characteristics or Engineering Materials	4			
ENGR 313	Engineering Economics	3	MATH1215		
NAVA 1120	Navajo II	4			
Semester SIX		15			
ME 353	Fluid Mechanics	3	PHYS 1230C & MATH 1510		
DFT 240	Building Codes	3			
ENVE 355	Soil Mechanics	3			
ENVE 403	Water & Waste System Design	3	CHEM 2130C		
CT 115	Construction Technology and Project Management	3			
Semester SEVEN		15			
CE 300	Capstone Project I	3			
CE 301	Structural Analysis I	3	DFT240, ENVE 355		
CE 302	Reinforced Concrete Design	3	IE 243, ENGR 143		
CE 303	Transportation Engineering	3			
CE XXX	CE Elective	3			
Summer Semester		3			
CE 313	Summer Internship	3			
Semester EIGHT		15			
CE 400	Capstone Project II	3			
CE 401	Foundation Design	3	CE 302		
CE 402	Structural Analysis II	3	CE 301		
CE XXX	CE Elective	3			

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Total Required Credit Hours		122			

Listing of Technical Electives:

CE 310: Estimation and Costing
 CE 311: Finite element Analysis
 CE 312: Irrigation and Drainage Systems
 CE 314: Stability of Structures
 CE 315: Harbor Design
 CE 3XX: Special Topics
 CE 410: Advanced Concrete Design
 CE 411: Design of Steel Structures
 CE 4XX: Special Topics
 ENVE 468: Air Pollution Control
 ENVE 455: FATE and Transport process in Environmental Engineering

	Signatures	Date
Student:		
Advisor:		
Registrar:		
Graduation Date:		

Revised 7/26/2026