



Five-Year Degree Plan

Catalog: 24-25

Major:

Mathematics (with Civil Engineering)

Concentration:

Minor:

Concentration 2:

Credits:

173

Fall 2024			Spring 2025		
CHEM 123	General Chemistry I **	3	CHEM 124	General Chemistry II **	4
COMM 120	Introduction to Human Comm	4	ENGL 125	Composition I	3
FYE 100	College Engagement Seminar	3	GEN 101	Jacket Journey	1
GLST 100	World Issues	2	MATH 202	Calculus II	4
MATH 201	Calculus I	3	MATH 305	Discrete Mathematical St	3
Fall 2025			Spring 2026		
MATH 203	Calculus III	4	MATH 301	Linear Algebra	4
MATH 310	Differential Equations	4	CEA Gen Ed	Student Choice	3
ENGL 225	Composition II	3	GEN 201	Jacket Journey	1
PHYS 251C	University Physics I (Lecture) *	4	BUS 260	Business Ethics	3
CE 101	Intro to Civil Engineering	1	CE 103	Graphical Communication	3
			ENGR 200	Compute Applications in Engineering	2
Fall 2026			Spring 2027		
MATH 402	Modern Abstract Algebra	4	MATH 335	Statistics	3
MATH 330	Probability	3	GEN 301	Jacket Journey	1
MATH 315	Operation Research	3	ENGR 202	Dynamics	3
CE 313	General Surveying	2	ENGR 203	Mechanics of Materials	3
ENGR 201	Statics	3	CE 306	Fluid Mechanics Approved	3
			GEOL/GEOE	Geology/Geological Engineering	3
Fall 2027			Spring 2028		
MATH 402	Real Analysis	4	GEN 401	Jacket Journey	1
CE 351	Structural Mechanics	4	CE 423	Hydraulic Engineering	3
CE 412	Soil Mechanics	3	CE 431	Environmental Engineering	3
Technical Elective		3	CE 451	Steel Design	3
SBS Gen Ed	Student Choice	3	ENGR 460	Engineering Economy	3
			Technical Elective		4
Fall 2028			Spring 2029		
			MATH 498	Senior Capstone Project	3
CE 421	Hydrology	3	CE 414	Foundation Engineering	3
CE 432	Environmental Engineering II	3	CE 416	Transportation Engineerin	3
CE 453	Reinforced Concrete	3	CE 444	Contracts and Specificatio	3
CE 482	Civil Engineering Design I	3	CE 483	Civil Engineering Design II	3
Technical Elective		3			

Indicates course taken through Defiance College

Indicate course taken through University of North Dakota

Indicate course taken at University of North Dakota Campus

* PHYS 251 and 252 lecture are taken during the term, with the accompanying 1 credit lab taken directly the following summer.

** DC students must take both CHEM 123 & 124 in order to gain total credit for CHEM 121/L requirement.

Summer 2028		16
CE 313L	Genral Surveying Lab	3
CE 411	Civil Engineering Materials Lab	1
CE 412L	Soil Mechanics Lab	4
CE 423L	Hydraulic Engineering Lab	4
CE 431L	Environmental Engineering Lab	4