



Five-Year Degree Plan

Catalog: 24-25

Major:	Mathematics (with Mechanical Engineering)		
Concentration:		Minor:	
Concentration 2:		Credits:	158

Fall 2024			16	Spring 2025			15			
CHEM 123	General Chemistry I **	4	MATH 202	Calculus II	4					
COMM 120	Introduction to Human Comm	3	ENGL 125	Composition I	3					
FYE 100	College Engagement Seminar	2	GEN 101	Jacket Journey	1					
GLST 100	World Issues	3	MATH 305	Discrete Mathematical Structures	3					
MATH 201	Calculus I	4	CHEM 124	General Chemistry II **	4					
Fall 2025			17	Spring 2026			14			
MATH 203	Calculus III	4	MATH 301	Linear Algebra	4					
MATH 310	Differential Equations	4	GEN 201	Jacket Journey	1					
ENGL 225	Composition II	3	PHYS 251 C	University Physics I (lecture) *	3					
BUS 260	Business Ethics	3	ENGR 201	Statics	3					
ME 101	Introduction to Mechanical Engineering	3	ME 341	Thermodynamics	3					
Fall 2026			15	Spring 2027			16	Summer 2027		2
MATH 402	Modern Abstract Algebra	4	MATH 335	Statistics	3	ME 201C	Student Design Lab	2		
MATH 330	Probability	3	GEN 301	Jacket Journey	1					
ENGR 202	Dynamics	3	SBS Gen Ed	Student Choice	3					
ENGR 203	Mechanics of Materials	3	PHYS 252C	University Physics II (lecture) *	3					
ENGR 200	Computer Applications in Engineering	2	ME 201C	Student Design Lecture	1					
Fall 2027			16	Spring 2028			17	Summer 2028		4
MATH 402	Real Analysis	4	MATH 498	Senior Capstone Project	3	ME 418L	Manufacturing Proc	1		
ENGR 206	Fundamentals of Electrical Engineering	3	GEN 401	Jacket Journey	1	ME 483	Mechanical Measure	3		
MATH 321	Applied Statistical Methods	3	Technical Elective	Technical Elective - Manufacturing and Materials	3					
ME 306	Fluid Mechanics	3	ME 418	Manufacturing Processes	3					
ME 301	Materials Science	3	ME 323/L	Machine Component Design w/Lab	4					
			ME 474	Fundamentals of Heat and Mass Transfer	3					

Fall 2028		16	Spring 2029		16
CEA Gen Ed	Student Choice	3	MATH 404	Modern Geometry	4
Technical Elective	Technical Elective - Thermal Sciences Stem	3	ME 488	Engineering Design	3
Technical Elective	Technical Elective	3	Technical Elective	Technical Elective	3
ME 487	Engineering Design	3	Technical Elective	Technical Elective	3
ME 480	Mechanical Engineering Seminar	1	Technical Elective	Technical Elective	3
ENGR 460	Engineering Economy	3			

Indicates course taken through Defiance College

Indicate course taken through University of North Dakota

* PHYS 251 and 252 lectures 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.