



## Five-Year Degree Plan

Catalog: 24-25

<b>Major:</b>	Mathematics (with Electrical Engineering)		
<b>Concentration:</b>		<b>Minor:</b>	
<b>Concentration 2:</b>		<b>Credits:</b>	153

Fall 2024			Spring 2025		
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	CHEM 124	General Chemistry II **	4
MATH 201	Calculus I	4	MATH 305	Discrete Mathematical Structures	3
			EE 101	Intro to Electrical Engineering	1
Fall 2025			Spring 2026		
MATH 203	Calculus III	4	PHYS 252C	University Physics II (lecture) *	3
MATH 310	Differential Equations	3	CEA Gen Ed	Student Choice	3
ENGL 225	Composition II	3	GEN 201	Jacket Journey	1
PHYS 251C	University Physics I (Lecture) *	3	MATH 301	Linear Algebra	4
BUS 260	Business Ethics	3	EE 201/L	Intro to Digital Electronics & Lab	4
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	EE 313/L	Linear Electric Circuits & Lab II	4
EE 206/L	Circuit Analysis & Lab I	4	EE Elective		3
EE 304	Computer Aided Measurement and Controls	3	SBS Gen Ed	Student Choice	3
			EE Elective		3
Fall 2027			Spring 2028		
MATH 402	Real Analysis	4	MATH 498	Senior Capstone Project	3
EE 314/L	Signals and Systems & Lab	4	GEN 401	Jacket Journey	1
EE 316	Electric and Magnetic Fields	3	EE 409	Distributed Networks	3
EE 321/L	Electronics I & Lab	4	EE 421/L	Electronics II & Lab	4
			EE 452/L	Embedded System & Design Lab	4
Fall 2028			Spring 2029		
EE 318	Engineering Data Analysis	3	EE 481	Senior Design II	3
EE 480	Senior Design I	3	EE 405/L	Control Systems I & Lab	4
ENGR 460	Engineering Economy	3	MATH 404 elective	Modern Geometry	4
EE Elective		3	EE Elective		3

Indicates course taken through Defiance College

Indicate course taken through University of North Dakota

\* 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.