

TWU Mathematics – UNT Biomedical Engineering

2024-2025 Catalog: Sample Five-Year Schedule

YEAR ONE

Fall Semester	Course Title	Credit Hours	Spring Semester	Course Title	Credit Hours	Summer Semester	Course Title	Credit Hours
MATH 2014	Calculus I	4	MATH 2024	Calculus II	4	HIST 1013	History of the United States	3
CSCI 1203 or 2003	Computing Skills for a Digital World or Software Systems Design and Tools	3	MATH 2053	Women and Minorities in Engineering, Math, and Science	3	POLS 2013	U.S. National Government	3
CHEM 1113 & 1111	General Chemistry I & Lab	4	MATH 3073	Matrix Methods	3	Total Hours		6
ENGL 1013	Composition I	3	University Core	Creative Arts	3			
UNIV 1231	Learning Frameworks	1	University Core	Multicultural Woman's Studies CAO	3			
University Core	Wellness/Mathematics CAO	2	Total Hours		15			
Total Hours		15						

YEAR TWO

MATH 3104	Calculus III	4	MATH 3123	Differential Equations	3	HIST 1023	History of the United States	3
MATH 3053	Abstract Algebra	3	MATH 3083	Elementary Number Theory	3	POLS 2023	Texas Government	3
PHYS 2153 & 2151	General Physics I and Lab	4	ZOOL 2013 & 2011	Human Anatomy & Physiology and Lab	4	Total Hours		6
TECM 2700	Technical Writing	3	MATH 3013	Discrete Mathematics	3			
BMEN 1300	Discover BMEN	3	BMEN 1400	Software for BMEN	4			
Total Hours		17	Total Hours		17			

YEAR THREE

MATH 3063	Linear Algebra	3	MATH 4873	Real Analysis	3			
MATH 4013	Probability and Statistics	3	MATH Elective	MATH Elective	3			
MATH Elective	Math Elective	3	CSCI 3013	Applied Computational Thinking	3			
MATH Elective	MATH Elective	3	BMEN 2320	Biomedical Instrumentation	4			
BMEN 2210	DAQ Practices	3	BMEN Track Elective	BMEN Track Elective	3			
Total Hours		15	Total Hours		16			

YEAR FOUR

BMEN 3310	Human Systems	3		BMEN 3312	Introduction to Biomechanics	3			
BMEN 3311	Signal Analysis	3		BMEN 3321	Biomaterials	3			
BMEN 3350	Transport Phenomena	3		BMEN Track Elective	BMEN Track Elective	3			
BMEN Track Elective	BMEN Track Elective	3		BMEN Track Elective	BMEN Track Elective	3			
University Core	Social and Behavioral Sciences	3		University Core	Language, Philosophy and Culture	3			
Total Hours		15		Total Hours		15			

YEAR FIVE

BMEN 4212	Senior Design I	3		BMEN 4222	Senior Design II	3			
BMEN Elective	BMEN Advanced Elective	3		BMEN Elective	BMEN Advanced Elective	3			
BMEN Elective	BMEN Advanced Elective			BMEN Elective	BMEN Advanced Elective	3			
BMEN Track Elective		3		BMEN Track Elective		3			
Total Hours		12		Total Hours		12			

Courses in **BLACK** are taken at TWU. Courses in **GREEN** are taken at UNT. Courses must be taken in a particular prerequisite order. ENGL, TECM, MATH, CHEM, PHYS, ZOOL, and BMEN, and Track Elective courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. UNT students should check their degree audit at mydegreereadit.unt.edu each term. UNT students should meet with their advisor each term to discuss individual scheduling, program decisions, etc.