

TWU Biology – 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 1703	Elementary Statistics I	3	HIST 1013	History of the United States	3
BIOL 1113 & 1111	Principles of Biology I and Lab	4	BIOL 1123 & 1121	Principles of Biology II and Lab	4	POLS 2013	U.S. National Government	3
CHEM 1113 & 1111	General Chemistry I & Lab	4	CHEM 1123 & 1121	General Chemistry II & Lab	4	Total Hours		6
ENGL 1013	Composition I	3	University Core	Multicultural Woman's Studies CAO	3			
UNIV 1231	Learning Frameworks	1	Total Hours		14			
Total Hours		16						

YEAR TWO

MATH 1720	Calculus II	3	MATH 2730	Multivariable Calculus	3	HIST 1023	History of the United States	3
BIOL 2113 & 2111	Plant Biology and Lab	4	BACT 3113 & 3111	General Microbiology and lab	4	POLS 2023	Texas Government	3
CHEM 2213 & 2211	Organic Chemistry I and Lab	4	CHEM 3223 & 3221	Organic Chemistry II and Lab	4	Total Hours		6
PHYS 2153 & 2151	General Physics I and Lab	4	PHYS 2163 & 2161	General or Principles of Physics II and lab	4			
Total Hours		15	Total Hours		15			

YEAR THREE

MATH 3410	Differential Equations	3	BMEN 1400	Software for BMEN	4			
BMEN 1300	Discover BMEN	3	BMEN 2320	Biomedical Instrumentation	4			
BMEN 2210	DAQ Practices	3	ZOOL 4243 & 4241	Medical Physiology and Lab	4			
TECM 2700	Technical Writing	3	BIOL 4823 & 4821	Molecular and Cellular Biology (Genetics and Inheritance) and Lab	4			
BIOL 4813 & 4811	Molecular and Cellular Biology (Gene Expression) and Lab	4	Total Hours		16			
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		BIOL Elective	Biology Elective	4			
MATH 2700	Linear Algebra	3		BIOL Elective	Biology Elective	3			
University Core	Social and Behavioral Sciences	3		University Core	Language, Philosophy and Culture	3			
Total Hours		15		Total Hours		16			

YEAR FIVE

BMEN 4212	Senior Design I	3		BMEN 4222	Senior Design II	3			
BMEN 4007	Experimental Design & Data Analysis	3		BMEN Elective	BMEN Advanced Elective	3			
BMEN Elective	BMEN Advanced Elective	3		BMEN Elective	BMEN Advanced Elective	3			
BIOL Elective	Biology Elective	3		BIOL 4681	Biology Seminar	1			
University Core	Creative Arts	3		TWU Core	Global Perspectives	3			
Total Hours		15		Total Hours		13			

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, BIOL, CHEM, PHYS, ZOOL, and BMEN 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 mydegreeaudit.unt.edu each term.

UNT students should meet with their advisor each term to discuss individual scheduling, program decisions, etc.