

TWU Mathematics – UNT Mechanical and Energy 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	PHYS 2163 & 2161	General Physics II and Lab	4	Total Hours		6
ENGR 1304	Engineering Graphics	3	MATH 3013	Discrete Mathematics	3			
MEEN 1000	Discover Mechanical and Energy	3	ENGR 2301	Statics	3			
Total Hours		17	Total Hours		16			

YEAR THREE

MATH 3063	Linear Algebra	3	MATH 4873	Real Analysis	3	University Core	Social and Behavioral Sciences	3
MATH 4013	Probability and Statistics	3	MATH Elective	MATH Elective	3	University Core	Language, Philosophy and Culture	3
TECM 2700	Technical Writing	3	MEEN 2110	Engineering Data Analysis	3	Total Hours		6
ENGR 2302	Dynamics	3	MEEN 2210	Thermodynamics I	3			
ENGR 2332	Mechanics of Materials	3	MEEN 2240	Programming for Engineers	3			
Total Hours		15	Total Hours		15			

YEAR FOUR

EENG 2610	Circuit Analysis	3		MEEN 3130	Machine Elements	3		University Core		3
ENGR 3450	Engineering Materials	4		MEEN 3210	Heat Transfer	3		Total Hours		3
MEEN 3110	Thermodynamics II	3		MEEN 3230	Dynamics and Controls	3				
MEEN 3120	Fluid Mechanics	3		MEEN 3242	Laboratory II	1				
MEEN 3240	Laboratory I	2		MEEN 3250	Analytical Methods	3				
Total Hours		15		CSCI 3013	Applied Computational Thinking	3				
				Total Hours		16				

YEAR FIVE

MEEN 3100	Manufacturing Processes	3		MEEN 4250	Senior Design II	3				
MEEN 4150	Senior Design I	3		MEEN Elective	MEEN Energy Elective	3				
MEEN Elective	MEEN Energy Elective	3		MEEN Elective	MEEN Technical Elective	3				
MEEN Elective	MEEN Technical Elective	3		MATH Elective	MATH Elective	3				
MATH Elective	MATH Elective	3		Total Hours		12				
Total Hours		15								

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, ENGR, and MEEN 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.