

## Mechanical and Energy Engineering and Mathematics - Dual Program at UNT at

Contact TWU for listing of additional MATH courses required to earn Mathematics degree

### Year One

FALL		SPRING	
MATH 2014, Calculus I	4	MATH 2024, Calculus II	4
ENG 1013, Composition I	3	Creative Arts	3
HIST 1013, U.S. History I	3	HIST 1023, U.S. History II	3
GOV 2013, U.S. Government	3	GOV 2023, Texas Government	3
CHEM 1113, General Chemistry I	3	PHYS 2153 or PHYS 1710, Physics I	3
CHEM 1111, General Chemistry I Lab	1	PHYS 2151 or PHYS 1730, Physics I Lab	1
Total hours	17	Total hours	17

### Year Two

FALL		SPRING	
MATH 3104, Calculus III	4	MATH 3063, Linear Algebra	3
PHYS 2163 or PHYS 2220, Physics II	3	MATH 3123, Differential Equations	4
PHYS 2161 or PHYS 2240, Physics II Lab	1	Language Philosophy and Culture	3
Social and Behavioral Sciences	3	MEEN 2301, Mechanics I	3
MEEN 1000, Discover Mechanical	3	MEEN 2210, Thermodynamics I	3
ENGR 1304, Engineering Graphics	3	TECM 2700, Technical Writing	3
Total hours	17	Total hours	16

### Year Three

FALL		SPRING	
MATH 3123, Differential Equations	4	MEEN 2240, Programming for MEEN	3
MEEN 2110, Data Analysis	2	MEEN 3120, Fluids	3
MEEN 2302, Mechanics II	3	MEEN 3250, Analytical Methods	3
MEEN 2332, Mechanics III	3	MTSE 3000, Fundamentals I	3
MEEN 3110, Thermodynamics II	3	MTSE 3003, Fundamentals I Lab	1
Total hours	14	Total hours	15

### Year Four

FALL		SPRING	
MEEN 3130, Machine Elements	3	MEEN 3100, Manufacturing Processes	3
MEEN 3210, Heat Transfer	3	MEEN 3242, Lab II	1
MEEN 3240, Lab I	2	MEEN 4150, Senior Design I	3
MEEN 3230 Dynamics and Controls	3	MEEN Energy Elective	3
EENG 2610 or ENGR 2405, Circuits	3	MEEN Technical Elective	3
Total hours	14	Total hours	13

### Year Five

FALL	
MEEN 4250, Senior Design II	3
MEEN Energy Elective	3

MEEN Technical Elective	3
Total hours	9

UNT Course

TWU Course

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