Dual Degree
BS, MATH + BS, Mechanical and Energy Engineering
Effective for the 2024 - 2025 Catalog

First Year

SEMESTER 1	CREDIT HOURS	SEMESTER 2	CREDIT HOURS
MATH 2014 Calculus I (020)	4	MATH 2024 Calculus II	4
CSCI 1203 Computing Skills for a Digital World	3	MATH 2053 Women and Minorities in Engineering, Math, and Science	3
CHEM 1113 & 1111 General Chemistry I & Lab (030)	4	MATH 3073 Matrix Methods	3
ENGL 1013 Composition I (010)	3	Creative Arts (050)	3
UNIV 1231 Learning Frameworks (090)	1	Multicultural Woman's Studies CAO (090)	3
Wellness/Mathematics CAO (090)	2		
Total Semester Hours: 17		**Total Semester Hours: 16**	
SUMMER			
HIST 1013 History of the United States (060)	3	POLS 2013 U.S. National Government (070)	3

Second Year

SEMESTER 3	CREDIT HOURS	SEMESTER 4	CREDIT HOURS
MATH 3104 Calculus III	4	MATH 3123 Differential Equations	3
MATH 3053 Abstract Algebra	3	MATH 3083 Elementary Number Theory	3
PHYS 2153 General Physics I + 2151 PHYS Lab (030)	4	PHYS 2163 General Physics II + PHYS 2161 Lab	4
***ENGR 1304 Engineering Graphics**	**3**	MATH 3013 Discrete Mathematics	3
***MEEN 1000 Discover Mechanical and Energy**	**3**	***ENGR 2301 Statics**	**3**
Total Semester Hours: 17		**Total Semester Hours: 16**	
SUMMER			
HIST 1023 History of the US (060)	3	POLS 2013 US National Government (070)	3

Third Year

SEMESTER 5	CREDIT HOURS	SEMESTER 6	CREDIT HOURS
MATH 3063 Linear Algebra	3	MATH 4873 Real Analysis	3
MATH 4013 Probability and Statistics	3	MATH Elective	3
***TECM 2700 Technical Writing (010)**	**3**	***MEEN 2110 Engineering Data Analysis**	**3**
***ENGR 2302 Dynamics**	**3**	***MEEN 2210 Thermodynamics I**	**3**
***ENGR 2332 Mechanics of Materials**	**3**	***MEEN 2240 Programming for Engineers**	**3**
Total Semester Hours: 15		**Total Semester Hours: 15**	
SUMMER			
Social/Behavioral Science Course (080)	3	Language, Philosophy, and Culture (040)	3

Fourth Year

SEMESTER 7	CREDIT HOURS	SEMESTER 8	CREDIT HOURS
***EENG 2610 Circuit Analysis**	**3**	***MEEN 3130 Machine Elements**	**3**
***ENGR 3450 Engineering Materials**	**4**	***MEEN 3210 Heat Transfer**	**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**
		CSCI 3013 Applied Computational Thinking	3
Total Semester Hours: 15		**Total Semester Hours: 16**	

Fifth Year

SEMESTER 7	CREDIT HOURS	SEMESTER 8	CREDIT HOURS
***MEEN 3100 Manufacturing Processes**	**3**	**MEEN 4250 Senior Design II**	**3**
***MEEN 4150 Senior Design I**	**3**	***MEEN Energy Elective**	**3**
***MEEN Energy Elective**	**3**	***MEEN Technical Elective**	**3**
***MEEN Technical Elective**	**3**	MATH Elective	3
MATH Elective	3		

Total Semester Hours: 15	Total Semester Hours: 12

SPECIFIC PROGRAM NOTES:

- 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, BMEN, and Track Elective courses require a minimum grade of "C" for completion and/or prerequisite.
- 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.

- **This is not an official degree plan**. Consult with an academic advisor or transfer center for academic planning; degree plans and pathways are subject to change in later catalogs. **NOTE: Developmental and/or pre-requisite coursework may be required.**
- Students may take an optional course to meet this core requirement. These courses may be taken at their community college. Contact an Academic advisor at your institution.
- Subject to course availability and department approval. Consult with an academic advisor for academic planning.
- Texas Common Core Curriculum Code under the Texas Higher Education Coordinating Board.