

2014 FALL - 2015 SPRING - CATALOG

127 hrs

Freshman

Sophomore

Junior

Senior

Fall

Spring

Fall

Spring

Fall

Spring

Fall

Spring

MATH 1650
Pre-Calculus
5 hrs

MATH 1710
Calculus I
4 hrs

MATH 1720
Calculus II
3 hrs

PHYS 2220/2240
Electr. & Mag.
(Physics II)
4 hrs

Co-Req

ENGR 2405
or
EENG 2610
Circuits
3 hrs

MEEN 4150
Design I
3 hrs

MEEN 4250
Design II
3 hrs

CSCE 1020
Prog. Devel.
4 hrs

ENGR 1304
Eng. Graphics
3 hrs

MATH 2700
Lin. Alg.
3 hrs

MEEN 3120
Fluids
3 hrs

MEEN
Tech Elective
#1

MEEN
Tech Elective
#2

CHEM 1415/1435
Chemistry
4 hrs

PHYS 1710/1730
Mechanics
(Physics I)
4 hrs

MATH 2730
Calculus III
3 hrs

MEEN 3250
Analytical
Meth.
3 hrs

MEEN 3210
Heat Transfer
3 hrs

MEEN Energy
Elective
#1

MEEN Energy
Elective
#2

MATH 3410
Diff. Eqn.
3 hrs

MEEN 3240
MEE Lab I
2 hrs

MEEN 3230
Sys., Dyn.,
Con.
3 hrs

MEEN 1000*
Discover MEE
3 hrs

MEEN 2210
Thermo I
3 hrs

MEEN 3110
Thermo II
3 hrs

MEEN 3242
MEE Lab II
1 hrs

ENGR 2302
Dynamics
3 hrs

MEEN 3130
Machine Elem.
3 hrs

ENGR 2301
Statics
3 hrs

ENGR 2332
Mech of Matl.
3 hrs

ENGR 3450/3451
Eng. Matl. Lab
4 hrs

MEEN 3100
Manufacturing
Processes
3 hrs

UNT CORE

ENGL
COMP

TECM 2700

US HIST

HUMANITY

POLTICAL
SCI

VIS. ART

POLTICAL
SCI

US HIST

SOCIAL &
BEHAVIORAL
SCIENCE

D grades are no longer accepted for Prerequisite courses

Students must have MEE Faculty approval for courses taken outside UNT

2014 Fall to 2015 Spring

Course Number		TYPE	Title	Pre-Requisites				Co-Requisites	
MEEN	3125	ENERGY	Thermal Engineering Projects	MEEN 2210				MEEN 3110	MEEN 3120
MEEN	4010		Thermal Energy Storage (TES)	MEEN 3120	MEEN 3210				
MEEN	4110	ENERGY	Alternative Energy Sources	MEEN 3110	MEEN 3120	MEEN 3210			
MEEN	4112	ENERGY	Fundamentals of Nuclear Engineering	MEEN 3110	MEEN 3120	MEEN 3210			
MEEN	4120	TECH	Aerospace Fundamentals	MATH 2700	ENGR 2302				
MEEN	4130	TECH	Failure of Deformable Bodies	ENGR 2332	ENGR 3450				
MEEN	4140	TECH	Finite Element Analysis	MATH 3410	ENGR 2332	ENGR 2302			
MEEN	4151	TECH	Manufacturing of Renewable Biocomposites for Lightweight Energy Efficient Structure	ENGR 2301					
MEEN	4152	TECH	Mechanics of Composites and Foams for Lightweight Energy Efficient Structures	ENGR 2332					
MEEN	4160	TECH	Mechanical Vibrations	MATH 1720	ENGR 2302				
MEEN	4300	ENERGY	Intermediate Thermodynamics	MEEN 3110	MEEN 3120	MEEN 3210			
MEEN	4310	ENERGY	Intermediate Heat Transfer	MEEN 3110	MEEN 3120	MEEN 3210			
MEEN	4315	ENERGY	Nanoscale Energy Transport Process	MEEN 3110	MEEN 3120	MEEN 3210			
MEEN	4320	ENERGY	Mechanical Systems for Buildings	MEEN 3120	MEEN 3210				
MEEN	4330	ENERGY	Introduction to Combustion Science and Engineering	MEEN 3110					
MEEN	4332	ENERGY	Fundamentals of Air Pollution Engineering	MEEN 3110					
MEEN	4335	ENERGY	Computational Simulation of Building Energy Systems	MEEN 3120	MEEN 3210				
MEEN	4340	ENERGY	Energy Efficiencies and Green Building Design for Commercial Buildings	MEEN 3120	MEEN 3210				
MEEN	4350	ENERGY	Energy Efficiencies and Green Building for Residential Buildings	MEEN 3120	MEEN 3210				
MEEN	4410	ENERGY	Energy Harvesting System Design	MEEN 3230	ENGR 2405 or EENG 2610				
MEEN	4415	TECH	Smart Materials and Structures	MEEN 3230	ENGR 2405 or EENG 2610				
MEEN	4488	TECH	Introduction to Microfluidics	MEEN 3120					
MEEN	4510	TECH	Electronic Manufacturing Technologies	MEEN 3100					
MEEN	4800	TECH	Topics in Mechanical and Energy Engineering	Consent of instructor					
MEEN	4810	ENERGY	Topics in Mechanical and Energy Engineering	Consent of instructor					
MEEN	4890		Directed Study in Mechanical and Energy Engineering	MEEN 2210					
MEEN	4900		Special Problems in Mechanical and Energy Engineering	Consent of instructor					
MEEN	4910		Special Problems in Mechanical and Energy Engineering	Consent of instructor					
MEEN	4920		Cooperative Education in Mechanical and Energy Engineering	Consent of Department					
MEEN	4930	TECH	Undergraduate Research	Consent of Department; enrollment in the Grad Track program					