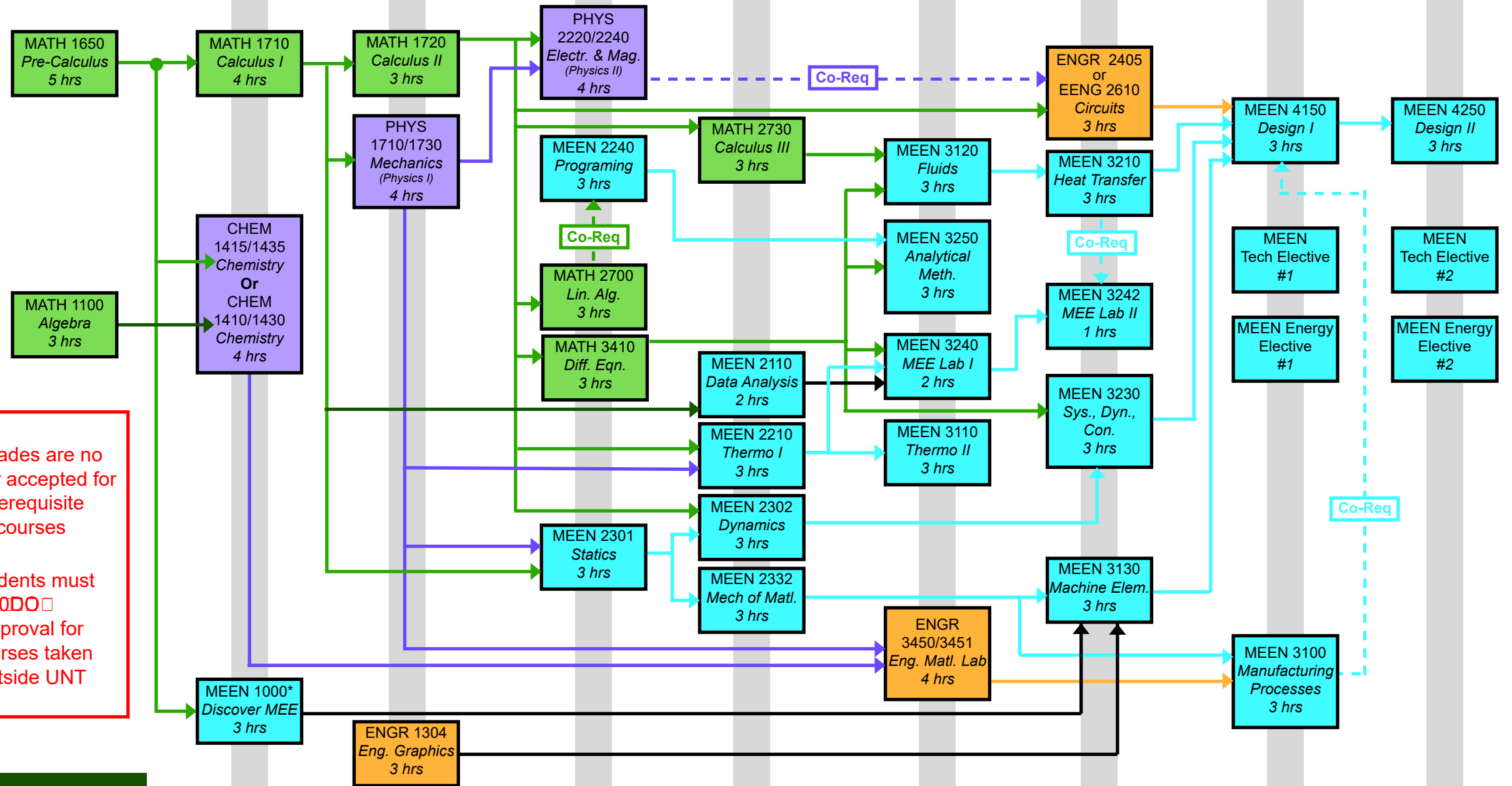


# 2016 FALL - 2017 SPRING - CATALOG

127 hrs

**Freshman**                      **Sophomore**                      **Junior**                      **Senior**

Fall                      Spring                      Fall                      Spring                      Fall                      Spring                      Fall                      Spring



D grades are no longer accepted for Prerequisite courses

Students must have ODO approval for courses taken outside UNT

**UNT CORE**

US HIST  
ENGL COMP

TECM 2700  
VIS. ART

POLITICAL SCI

US HIST  
POLITICAL SCI

HUMANITY  
SOCIAL & BEHAVIORAL SCIENCE

## 2016 Fall to 2017 Spring

Course Number		TYPE	Title	Pre-Requisites				Co-Requisites	
MEEN	3125	ENERGY	Thermal Engineering Projects	MEEN 2210				MEEN 3110	MEEN 3120
MEEN	4010	ENERGY	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	MEEN 3120	MEEN 3230			
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					