

University of North Texas Master of Science in Mechanical & Energy Engineering Degree Plan: Modeling and Simulation - Course-Only Option – 33 hours

Student Name	UNT ID		Signature			
Local Telephone	Email		Date			
Graduate Program Committee (GPC) Representative		Signature/Date				
Graduate Program Committee Chair:	Seifollah Nasrazadani	Signature/Date				
Department Chair:	Herman Shen	Signature/Date				
Other Requirements	Expect to Complete Semester/Yr.		Comments			
English Proficiency						
Leveling Course(s)						
the student are advised to tailor	the degree plan based on	course availability	sources. The GPC Representative and . elective courses within the selected			
 All M.S. students must register and attend MEE seminars for one semester. At least 21 credits in MEE, including the core and elective courses within the track and outside. 						
·						
Courses registered without Adv credit toward degree requirement	•		ons from the degree plan result in no			
The responsibility for adhering to Graduate School, College and Departmental requirements rests entirely with the student. Application for graduation must be filed in the Graduate School Office before the deadline in force during the final semester. Consult the Toulouse Graduate School and the Graduate Catalog for further information http://tsgs.unt.edu/						

MECHANICAL & ENERGY DEGREE PLAN (33 HOURS)

Required core courses - 12 Hours			EXPECT TO COMPLETE SEMESTER / YR
MEEN 5140 - Advanced Mathematical Methods for En	gineers (3)		
MEEN 5440 - Finite Element Analysis (3)			
MEEN 5220 - Computational Fluid Dynamics and Hea	t Transfer* (3)		
MEEN 6000 - Advanced Numerical Methods (or MTS	E 5710 or CSCE 5230) (3)		
Electives – Select 21 hours			
MEEN 5311 - Convective Heat Transfer II* (3)			
MEEN 5340 - Advanced Fluid Mechanics* (3)			
MEEN 5420 - Continuum Mechanics** (3)			
MEEN 5410 - Advance Solid Mechanics (3)			
MEEN 5315 - Nanoscale Energy Transport (3)			
MEEN 5800 – Topics in Mechanical and Energy Engir	neering: Turbulent Flow (3)	_	
CSCE 5160 - Parallel Processing and Algorithms (3)			
CSCE 5230 - Methods of Numerical Computation (3)			
CSCE 5420 - Software Development (3)			
CSCE 5810 - Biocomputing (3)			
MTSE 5710 - Computational Materials Science** (3)			
MEEN 5980 Directed Study (1-3)			
MEEN 5940 Seminar (1)			
Note: Every student under the Modeling and Simulation (**) or in the area of thermal-fluid sciences (*), or both		oup of courses	either in the area of mechanic
Graduate Elective, notes, or additional comments		Date	
The student is admitted to candidacy/appr	oved by:		
Toulouse Graduate School			
Name:	Signature / Date:		