

University of North Texas Master of Science in Mechanical & Energy Engineering Degree Plan: Modeling and Simulation - Thesis Option - 30 hours

Student Name	UNT ID		Signature		
Local Telephone	Email		Date		
Major Professor:		Signature/Date			
Committee Member*:		Signature/Date			
Committee Member:			Signature/Date		
Committee Member:	Signature/Dat				
Committee Member*:	Signature/Date				
* 2 members from Mechanical Eng Graduate Program Committee Chair:	ineering Seifollah Nasrazadani	Signature/Date			
Department Chair:	Herman Shen	Signature/Date			
Other Requirements	Expect to Complete Semester/Yr.		Comments		
English Proficiency					
Leveling Course(s)					
Thesis Proposal Presentation					
 Course offerings vary from year to year and are based on enrollment and resources. The Major Professor and the student are advised to tailor the degree plan based on course availability. A total of 21 credits (seven courses) must come from the required core and elective courses within the selected track (i.e., concentration). At least 21 credits in MEE, including the core and elective courses within the track and outside. All M.S. students must register and attend MEE seminars for one semester. Courses registered without Advisor's approval or any unapproved deviations from the degree plan result in no credit toward degree requirements. Student initials: 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 THESIS DEGREE PLAN (30 HOURS)

Required core courses - 12 Hours			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				
MEEN 6000 - Advanced Numerical Methods (or MTS				
Electives – Select 12 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 Engin				
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)				
Thesis Hours – 6 hours				
MEEN 5950 Thesis (6)				
Note: Every student under the Modeling and Simulatio (**) or in the area of thermal-fluid sciences (*), or both		oup of courses	either in the area of mechanics	
Graduate Elective, notes, or additional comments		Date		
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The student is admitted to candidacy/approved by:				
Toulouse Graduate School				
Name:	Signature / Date:			

EXPECT TO