

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

Student Name	UNT ID	Signature
Local Telephone	Email	Date

Graduate Program Committee (GPC) Representative	Signature/Date
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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)		

- Course offerings vary from year to year and are based on enrollment and resources. The GPC Representative 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).
- 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 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 DEGREE PLAN (33 HOURS)

Required core courses - 12 Hours	EXPECT TO COMPLETE SEMESTER / YR
MEEN 5410 - Advanced Solid Mechanics (3)	
MEEN 5520 - Manufacturing Concepts for Mechanical Engineers (or Bioproducts or Automotive Manufacturing) (3)	
MEEN 5800 – Topics in Mechanical and Energy Engineering: Experimental Design (3)	
MTSE 5100 - Fundamental Concepts of Materials Science or MEEN 5440 Finite Element Analysis (3)	
Electives – Select 21 hours	
MEEN 5440 - Finite Element Analysis (3)	
MEEN 5152 - Mechanics of Composites and Foams for Lightweight Structures (3)	
MEEN 5420 - Continuum Mechanics (3)	
MEEN 5315 - Nanoscale Energy Transport (3)	
MEEN 5800 - Topics in Mechanical and Energy Engineering: Automotive Manufacturing (3)	
MEEN 5800 – Topics in Mechanical and Energy Engineering: Robotics and Automation (3)	
MEEN 5480 – Energy Materials (3)	
MTSE 5020 - Mechanical Properties of Materials (3)	
MTSE 5400 - Advanced Polymer Physics and Chemistry (3)	
MTSE 5550 - Materials and Mechanics for MEMS Devices (3)	
MTSE 5710 - Computational Materials Science (3)	
MTSE 6110 - Applied Fracture Mechanics (3)	
MEEN 5980 Directed Study (1-3)	
MEEN 5940 Seminar (1)	

Graduate Elective, notes, or additional comments	Date

The student is admitted to candidacy/approved by:	
Toulouse Graduate School	
Name:	Signature / Date: