

**University of North Texas**  
**Master of Science in Mechanical & Energy Engineering**  
**Degree Plan: Thermal-Fluid System - 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: Kuruvilla John	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 5140 - Advanced Mathematical Methods for Engineers (3)	
MEEN 5300 - Advanced Thermodynamics (3)	
MEEN 5311 - Convective Heat Transfer II (3)	
MEEN 5340 - Advanced Fluid Mechanics (3)	
<b>Electives – Select 21 hours</b>	
MEEN 5000 - Energy: The Fundamentals (3)	
MEEN 5110 - Alternative Energy (3)	
MEEN 5200 - Principles of HVAC (3)	
MEEN 5310 - Conduction and Radiation Heat Transfer (3)	
MEEN 5315 - Nanoscale Energy Transport (3)	
MEEN 5330 - Combustion Science and Engineering (3)	
MEEN 5800 - Topics in Mechanical and Energy Engineering: Geothermal Heat Pumps (3)	
MEEN 5800 – Topics in Mechanical and Energy Engineering: Turbulent Flow (3)	
MEEN 5800 – Topics in Mechanical and Energy Engineering: Optics and Radiation (3)	
MEEN 5980 Directed Study (1-3)	
MEEN 5940 Seminar (1)	

Graduate Elective, notes, or additional comments	Date

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