

Graduate Academic Certificate in Energy



The Department of Mechanical and Energy Engineering is proud to offer a new Graduate Academic Certificate in Energy. This program is designed to meet the increasing demands of students with a comprehensive understanding of energy engineering, social/environmental studies, energy policy, economics and management. This program will also be unique in the State of Texas and among only a few in the US.

Admission to the Program

1. Bachelor's degree *from an accredited college or university* (could be Non-engineering B.S.).
2. GPA of 2.8 or above

Certificate Requirements

The student must complete 15 hours of course work as follows and maintain at least a B average for all graduate courses.

Required Core Courses, 6 hours

The student must take the following two courses:

- MEEN 5000 - Energy: The Fundamentals
- MEEN 5240 - Energy: A World Perspective

Elective Courses, 9 hours

The student must choose three courses from the following list. Other relevant courses may be taken with the approval of the graduate advisor.

- EENG 4350/5350 - Renewable Electrical Power Systems
- MEEN 4110/5110 - Alternative Energy
- MEEN 5200 - Principles of HVAC
- MEEN 5330 - Combustion Science and Engineering
- MEEN 5112 - Nuclear Energy
- MEEN 5210 - Solar Energy
- MEEN 5332 - Air Pollution Control Engineering
- MEEN 5150 - Thermal Energy Storage Systems and Applications
- MEEN 5300 - Advanced Thermodynamics
- MEEN 5315 - Nanoscale Energy Transport
- EENG 5340 - Environmental Monitoring
- MEEN 4410 - Energy Harvesting System Design
- BIOL 6341 - Advanced Environmental Impact Assessment
- PHIL 6760 - Topics in Environmental Philosophy
- PHIL 4700 - Environmental Ethics
- PADM 5700 - Sustainability in a Changing World
- SOCI 5260/6500 – Sustainable Community Development (Environmental Sociology)

Application Instructions and Additional Information

Please submit the formal application online at tsgs.unt.edu/apply

For additional information, please contact Dr. Tae-Youl Choi by phone (940-565-2198) or by email (Tae-Youl.Choi@unt.edu)

Additional Information

We are located at the UNT Department of Mechanical and Energy Engineering at 3490 North Elm, Denton, Texas 76207. For general inquiries, call (940) 565-2400.

Certificate in Energy
 Dept. of Mechanical and Energy Engineering
 University of North Texas

Student Name: _____

Student ID: _____

Expected Graduation Date: _____

Course Requirements:

Course	Semester	Grade
MEEN 5000 - Energy: The Fundamentals		
MEEN 5240 - Energy: A World Perspective		

The above named student has completed the requirements for the Certificate in Energy from the Department of Mechanical and Energy Engineering, University of North Texas, subject to the successful completion of the courses for which the grade is not recorded in the table above.

 (Student Print Name)

 (Date)

 (Student Signature)

 (Date)

 (Advisor Print Name)

 (Date)

 (Advisor Signature)

 (Date)

 (Dean, College of Engineering Print)

 (Date)

 (Dean, College of Engineering Signature)

 (Date)

For Department Use Only

Date Received:

Date Sent to Registrar: