

# Master of Energy Engineering

## Admission Requirements

Transcripts of all undergraduate and any graduate work must be submitted. In addition to the Graduate College minimum requirements, applicants must meet the following program requirements:

- **Baccalaureate Degree and Field A** baccalaureate degree or its equivalent in an engineering discipline, mathematics, computer science, or a natural science, such as physics or chemistry, from an accredited college or university will be required, except in special cases. Generally qualified candidates may be required by the department to remove specific course work deficiencies by completing selected undergraduate courses prior to matriculation or graduation. In most cases, the prerequisites for admission to the degree program would be satisfied by one course in thermodynamics and one in heat transfer, and these are prerequisites for several of the required courses in the degree.
- **Grade Point Average** At least 3.00/4.00 for the final 60 semester (90 quarter) hours of undergraduate study and any postbaccalaureate course work.
- **Minimum English Competency Test Score**
  - **TOEFL** 80, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (iBT Internet-based); 60, with subscores of Reading 19, Listening 17, Writing 21 (New Paper-Based—after August 2018); 550 (Institutional Testing Paper-Based—prior to August 2018), **OR**,
  - **IELTS** 6.5, with subscores of 6.0 for all four subscores, **OR**,
  - **PTE-Academic** 54, with subscores of Reading 51, Listening 47, Speaking 53, and Writing 56.

## Degree Requirements

In addition to the Graduate College minimum requirements, students must meet the following program requirements:

- **Minimum Semester Hours Required** 32 hours of course work. No thesis is required.
- **Course Work**

Course	Title
<b>Required Courses</b>	
ENER 420	Combined Heat and Power, Design, and Management
ENER 422	Building Heating, Ventilating, and Air-Conditioning
ENER 424	Industrial Energy Management and Conservation
ENER 429	Internal Combustion Engines
ENER 451	Electric Power Generation
ENER 501	Engineering Project Coordination and Management
ENER 552	Design of Energy Efficient Buildings
ENER 553	Sustainable Energy Engineering and Renewable Energy

- Students must get the approval of the director of graduate studies to take online courses.
- Any substitute courses to the above required courses must be approved first by the student's advisor and then by the director of graduate studies.
- **Comprehensive Examination** None.
- **Thesis, Project, or Course-Work-Only Options** Course work only.