MASTER OF SCIENCE IN
ENERGY MANAGEMENT

Program Outcomes

Graduates of the M.S. in Energy Management program are expected to:

1. Compare and contrast methods and equipment which are used to reduce energy consumption in buildings.

2. Analyze conventional and alternative energy technologies.

3. Evaluate economic and social factors which influence energy policy and management decisions.

4. Complete a multidisciplinary research study in a specific area of energy management.

5. Explain and argue aspects of current environmental issues.

6. Differentiate and critique specific issues in areas of specialization such as facilities management, equipment assessment, computer applications, power plant systems and environmental law.

REQUIRED FOR THE MASTER OF SCIENCE IN ENERGY MANAGEMENT

Required Core Courses:

ENGY 610	Energy Management
ENGY 670	Energy Technology in Perspective
ENGY 695	Systems Engineering and Management
ENGY 710	Power Plant Systems
ENGY 775	Alternative Energy Systems
ENVT 601	Intro. to Environmental Technology
ENGY 890	Thesis, Practicum, or Other Research

Plus three elective courses; recommended courses are below:

Facilities Management Electives:

ENGY 615	Energy Equipment Assessment
ENGY 620	Facilities Operations and Maintenance
ENGY 625	Facilities Management Seminar
ENGY 730	Computer Applications for Energy Management

Power Systems Electives:

ENGY 630	Facility Security and Contingency Planning
ENGY 740	Solar Energy Technology
ENGY 745	Advanced Battery and Fuel Cell Technologies
ENGY 795	Smart Grid Systems

Environmental Technology Electives:

ENVT 720	Environmental Audits and Monitoring
ENVT 725	Sustainability and the Environment
ENVT 730	Geographical Information Systems
ENVT 750	Environmental Risk Assessment

Matrix of Relationships between Courses and Program Outcomes

	1	2	3	4	5	6
ENGY 610	•		•			
ENGY 670		•	•		•	
ENGY 695			•			
ENGY 710		•				
ENGY 775		•				
ENVT 601					•	
ENGY 890				•		
ENGY 615	•		•			•
ENGY 620	•		•			•
ENGY 625	•		•			•
ENGY 730	•		•			•
ENGY 630		•				•
ENGY 740		•				•
ENGY 745		•				•
ENGY 795		•				•
ENVT 720					•	•

ENVT 725					•	•
ENVT 730					•	•
ENVT 750					•	•