

# Get a Concentration in Renewable Energy Technologies



The Engineering Technology and Survey Engineering Department at NMSU is offering a “*concentration or emphasis*” in **Renewable Energy Technologies (RET)** in the Electronics and Computer Engineering Technology major (ECET). This unique educational opportunity is obtained by taking classes in your ET major from a selected list of RET classes: classes that teach the technologies of solar **energy, wind energy, geothermal, wave and tidal, hydroelectric, fuel cells, and others**. You can also take an **internship or project** class in RET and design a photovoltaic or wind system to provide power to a rural community or develop a standalone water pumping station for a farm or ranch.

This concentration will prepare you with the theory and “hands-on application” of RET via fun and interesting lectures and laboratories. Learn how to measure and determine the energy in the sun light or wind and convert this to power. Students are excited to be part of an engineering program that has the potential to change our lives and perhaps the world. Be part of this growing and interesting field of alternative and sustainable technologies. If you want to make a real difference in the world, if you want to help the environment as well as future generations, if you want a well paying, socially conscience, and fun job, then this fast growing field is for you.



If learning the theory of the above engineering disciplines and matching that with hands-on experience is something that interests you – click on our **ET WEB SITE** at <http://et.nmsu.edu/>, call us at **575-646-2236**, or email us at [engrtech@nmsu.edu](mailto:engrtech@nmsu.edu) – We would love to talk with you about the exciting careers that await you with a degree in Engineering Technology from New Mexico State University. We hope to hear from you, or see you soon!

## Renewable Energy Technology Concentration

What follows is a list of classes and the corresponding basic study areas that will result in a Concentration in “*Renewable Energy Technology*” within the ECET and MET majors. Students can fulfill this Concentration by using their three required technical electives without any additional credit requirements

### **3 Courses From:**

ET 382 Solar Energy Technology  
ET 384 Wind and Water Energy Technology  
ET 386 Sustainable Building Design  
ET 365 Building Utilities – Note: this class can not serve both as a tech. elective and as a required ECET class, toward fulfilling degree requirements  
ET 304 Electrical Machines,  
ET 374 Electric Power Distribution,  
ET 396 Heat Transfer and Applications,  
ET 401 Heating & Air Conditioning Systems,  
EE 391 Introduction to Electric Power Engineering,  
CHE 466 Fuel Cell and Hydrogen Technology, or

Students may only take one class from the following choices:

1. ET 420 Senior Internship – (must be related to a renewable energy field)
2. ET 435 Senior Design and Project Management (must be related to a renewable energy application)
3. ET 440 Senior Design – (must be related to a renewable energy application)  
ET 441 Senior Project – (must be related to a renewable energy application)

Additionally, it is strongly “*recommended*” that students select the following courses from the General Education menu options:

### **English Composition:**

- English 218G or 318G “Technical Writing”

### **Basic Natural Sciences:**

- Chem. 110G or 111

### **Human Thought and Behavior:**

- Phil 240G Ethics for Engineering and Scientific Careers

### **Viewing a Wider World recommendations:**

- College of AG: AGE/ECON 337G “Natural Resource Economics” or AGHE 380G “Ecosystem Earth; The Impact of Human Activities”
- College of Arts & Science: Phys 303G “Energy and Society in the New Millennium” or Hist 302G “Science in Modern Society” or Hist 303G “History of Technology”
- College of BA&Econ: ECON 337G “Natural Resource Economics” or ECON 384G “Water Resource Economics”