EGR 102: Introduction to Sustainable and Green Energy Technologies

This course is designed to introduce students to emerging renewable energy technologies and sustainable building design practices. Both the practical applications and underlying theories are addressed. Topics include: The Construction/Engineering Design and Implementation Process, Green Building Practices, especially those related to Energy Efficiency, Environmental Conservation, and Resource Management, Wind Turbines, Solar Energy, and other forms of renewable energy. Three hours of lecture per week. Instructional Support Fee applies.

Course Student Learning Outcomes

1. Describe different aspects of Green Technology. 2. Utilize the steps of the construction/engineering design process. 3. Demonstrate Design, Project &Time Management Skills. 4. Describe and evaluate Renewable Energy Sources and Technologies. 5. Describe and evaluate Green Building Practices and Technologies. 6. Describe and evaluate Environmental Conservation and Resource Management Methods.
Credits: 3
Program: Engineering