

RENEWABLE ENERGY (EGY)

EGY 105 - Sustainable Building Design

Credit Hours: 3, Contact Hours: 3

Division: Technical

This course provides a great introduction to sustainable building practices. Through structured classroom activities, the student will learn about the structure of matter and the material world, whole system thinking, site and natural energy mapping, water resources, building orientation, materials and resources, indoor air quality, innovation and design. This course is required to achieve a Level II Certificate in Renewable Energy Technology. Group 2 course.

Recommended Prerequisite(s): Placement in MTH 100 or co-enrollment in the recommended developmental Math course, placement into ENG 11/111 or co-enrollment in the recommended English course

EGY 115 - Residential Energy Efficiency

Credit Hours: 3, Contact Hours: 3

Division: Technical

This course provides a broad spectrum of information regarding basic residential energy conservation. Through structured classroom and hands-on skill building, the student will learn about the principles of energy, building shell construction, air leakage, insulation, windows and doors, heating, lighting, cooling, water heating, health, and safety. This course, or its equivalency, is a required class for the Renewable Energy Certificate Program. Group 2 course.

EGY 145 - Geothermal Technology

Credit Hours: 3, Contact Hours: 4

Division: Technical

This course introduces the basic principles of geothermal energy production and technology. Essentials on how to utilize geothermal technology as an energy source will be analyzed and demonstrated. Examples of residential and commercial applications will be shown and reviewed. Group 2 course.

Required Prerequisite(s): HVA 106

Recommended Prerequisite(s): MTH 100 or placement into MTH 111, ENG 111

EGY 293 - Construction Tech Study Abroad

Credit Hours: 1, Contact Hours: 1

In this class, students are provided the opportunity to travel to a specified destination affiliated with the corresponding renewable energy non-trip course. This course will serve to integrate the student learning experience and provide a sense of cultural perspective, diversity and regional awareness. The course is an opportunity for students to explore other areas around the world while applying discipline-specific course content. For a more specific course description, please review the course description of the associated non-trip course. Group 2 course.

Required Prerequisite(s): EGY 105, or EGY 115.