**RENEWABLE ENERGY (EGY)**

**EGY 105 - Sustainable Building Design**  
*Credit Hours: 3, Contact Hours: 3*  
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*  
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*  
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