

**Course Title:** AET-102 Introduction to Alternative Energy Technology

**Date:** Spring 2017

**Course Team:** Greg Betz

### **Expected Learning Outcomes**

- Identify and differentiate alternative energy systems
- Conduct and evaluate data collection from alternative energy systems
- Identify applications for use of alternative and renewable energy
- Document and research regarding future career opportunities in the energy field
- Understand basic electrical load.

### **Assessment**

- Total of 3 tests throughout the semester
- Classroom lab exercises and assignments

### **Validation**

- Comparison of students grades with previous semesters
- Consult internship supervisors and companies about performance of interns and hired students based on ability and knowledge gained.
- The evaluation of student performance and ability to transfer knowledge to next level of class in the program.
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### **Results**

- The results of tests show how much of the content the students have retained throughout the semester
- Hands on exercises show the capability of students to transfer knowledge they have read into hands on applications
- Internships will measure the student outcomes in a real world environment through feedback from internship supervisor
- **Spring 2017**
  - Class average 77%. Previous semester 75%
  - Students were successful at performing hand on classroom assignments dealing with solar, wind and hydrogen

### **Follow-up**

- The data will be evaluated to improve teaching techniques
- The data will be evaluated to help us remain up to date with technology changes.
- BPI Energy Audit needs to be have its own class created. This could possibly help with bring new students to HCC

### **Budget Justification**

- Update textbook to include changes in technology
- Update classroom equipment to keep pace with changes in technology