

Course Title: AET-102 Introduction to Alternative Energy Technology

Date: Fall 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.

Results

- **Spring 2017**
 - Class average 63%. (One student did not withdraw from class had received a 5%)
 - 3 students in class
 - Previous semester 77%
 - Students were successful at performing hands on classroom assignments dealing with solar, wind and hydrogen
- The results of the testing and final examination show retention of the classroom materials.
- The results of the practice exercises show the ability of the student to transfer textbook information to hands-on applications.
- Internships will measure the student outcomes in a real world environment through feedback from internship supervisor

Follow-up

- The data will be evaluated to improve teaching techniques
- The results will be used to alter the course content to focus on areas where students had the most issues
- The data will be evaluated to help us remain up to date with technology changes.

Budget Justification

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