**Course Title:**  AET-108 Wind Energy Installation  

**Date:**  Spring 2017  

**Course Team:**  Greg Betz  

**Expected Learning Outcomes**  
- Specify and install a typical wind energy system  
- Collect and evaluate data from a wind energy system  
- Start up a wind energy system  
- Maintain and troubleshoot a wind energy system  
- Calculate 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**  
- The results of tests who 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 73%. Previous semester unknown due to teacher transition  
  - Students were successful at performing hand on classroom assignments  
  - No internships available in the area  

**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.  
- With the loss of our maintenance contract with the Turbine manufacture due to them going bankrupt bring the turbine down during class would be a good addition for the students and would get maintenance down on the turbine.  

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