

Master Syllabus

EGV 2780 - Energy Management Technology Capstone

Division: Science, Mathematics and Engineering

Department: Engineering Technology Design

Credit Hour Total: 4.0

Lecture Hrs: 2.0 **Lab Hrs:** 4.0

Other Prerequisite(s): Approval of Department

Date Revised: October 2013

Course Description:

Assessment of achievement by Energy Management Technology students in attaining program outcomes by completing a project demonstrating principles and practice of the major. Teamwork on projects will be emphasized. Two classroom, four lab hours per week.

General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Oral Communication Competency
- ▣ Written Communication Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency

Course Outcomes:

Demonstrate teamwork

As a member of a team, demonstrate the professional values of the Sinclair Honor Code.

Assessment Method: Behavioral observations

Performance Criteria: Receive score of at least "5" out of 7 on review

Principles and practices

Demonstrate the principles and practices of the discipline as described by program outcomes.

Assessment Method: Portfolios

Performance Criteria: Receive score of at least "3.5" out of 5 on a rubric

Project planning and design

Complete and plan a project through the design phase.

Assessment Method: Portfolios

Performance Criteria: Receive score of at least "3.5" out of 5 on a rubric

Outline:

Identify a project
Research sources to solve the problem
Develop alternative solutions
Define project scope
Develop and present oral, graphic and written media of the solution.