

## 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

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#### 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.