

Master Syllabus

MET 2780 - Mechanical Engineering Technology Capstone

Division: Science, Mathematics and Engineering

Department: Mechanical Engineering Technology

Credit Hour Total: 3.0

Lecture Hrs: 1.0 **Lab Hrs:** 6.0

Prerequisite(s): MET 2101 AND MET 2151 AND MET 2201 AND MET 2251 AND MET 1301 AND MAN 2110

Date Revised: January 2015

Course Description:

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

General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Oral Communication Competency
- ▣ Written Communication Competency
- ▣ Information Literacy Competency
- ▣ Computer 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 a score of "5" out of 7 on review

Project planning and design

Complete and plan a project through the design phase.

Assessment Method: Portfolios

Performance Criteria:

Receive score of "3.5" out of 5 on a rubric

Principles and practices

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

Assessment Method: Portfolios

Performance Criteria:

Receive score of "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