

Master Syllabus

EGV 2781 - Environmental Engineering 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 2012

Course Description:

Assessment of achievement by Environmental Engineering 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
- Values/Citizenship/Community
- Oral Communication
- Written Communication
- Information Literacy
- Computer Literacy

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 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 at least "3.5" 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 at least "3.5" 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.