

Master Syllabus

CAT 2781 - Civil Engineering Technology Capstone

Division: Science, Mathematics and Engineering

Department: Civil Engineering Technology

Credit Hour Total: 4.0

Lecture Hrs: 2.0 **Lab Hrs:** 6.0

Other Prerequisite(s): Approval of Department

Date Revised: December 2016

Course Description:

Assessment of achievement by Civil Engineering Technology students in attaining program outcomes by completing a project demonstrating principles and practices of the major. Teamwork on projects will be emphasized. Only offered spring semester. Should be taken last spring term of program. Two classroom, six lab hours per week.

General Education Outcomes:

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

Course Outcomes:

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

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

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