Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

OPT 2780 - Operations Technology Capstone

Division: Science, Mathematics and Engineering

Department: Operations Technology

Credit Hour Total: 3.0 **Lecture Hrs:** 3.0

Other Prerequisite(s): Approval of Department

Date Revised: October 2012

Course Description:

Assessment of achievement by Operations Technology students in attaining program-related outcomes by completing a project demonstrating principles and practices of the major.

General Education Outcomes:

- Critical Thinking/Problem Solving

Course Outcomes:

Technical Skills and Knowledge
Demonstrate the ability to transfer technical skills and knowledge to real-world situations.

Assessment Method: Portfolios
Performance Criteria: Analysis of capstone portfolio indicates "competent" performance or better on the portfolio rubric by 80 % of the students.

Complex Operations Problems
Demonstrate the ability to solve complex operations problems, drawing upon a breadth of operations technology competencies.

Assessment Method: Portfolios
Performance Criteria: Analysis of capstone portfolio indicates "competent" performance or better on the portfolio rubric by 80% of students.

Engineering Techniques
Apply appropriate engineering techniques in an open-ended environment.

Assessment Method: Portfolios
Performance Criteria: Analysis of capstone portfolio indicates "competent" performance or better on the portfolio rubric by 80% of the students.

Solutions to Technical Issues
Identify, justify and communicate solutions to technical issues.

Assessment Method: Portfolios
Performance Criteria: Analysis of capstone portfolio indicates "competent" performance or better on the portfolio rubric demonstrated by 80% of students.

Outline:

Student organization meeting to explain courses purpose, schedule, rules and expectations
Students (individually or in teams, it depends on the size and scope of the project) and faculty meet with the project sponsors
Students and sponsors develop project description, including end of the project deliverables
Students work on their project at the sponsors location
Midterm progress report sent to faculty and sponsor by students
Project completed, a written report and Power Point presentation is developed
Final presentation to the sponsor and faculty, report and copy of the presentation is submitted