

Master Syllabus

CAM 2780 - Computer Aided Manufacturing Capstone

Division: Science, Mathematics and Engineering

Department: Computer Aided Manufacturing

Credit Hour Total: 3.0

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

Prerequisite(s): CAM 1110AND CAM 2114AND CAM 2204AND CAM 2212

Date Revised: January 2015

Course Description:

Assessment of achievement by Computer Aided Manufacturing students in attaining program-related outcomes by completing a project demonstrating principles and practices of the major. Two classroom, two lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Project

Complete a project through the design process.

Assessment Method: Portfolios

Performance Criteria:

Portfolio projects show correct planning and execution of projects at the 80% level..

Teamwork

Demonstrate ability to work as a team member to successfully complete a project in a professional manner.

Assessment Method: Behavioral observations

Performance Criteria:

Teamwork rubric indicates scores of "3" or better (out of 5).

Tooling and Machining Skills

Demonstrate tooling and machining skills appropriate to program requirements.

Assessment Method: Portfolios

Performance Criteria:

Portfolio results indicate 80% correct use of programming and machine tools.

Outline:

Computer numerical control programming

Machining center setup and operation

Turning center setup and operation

Manual machining

Computer aided design

Teamwork