Course Title: **CAD 153**

Course Leader: **Adam C. Bridendolph**

Expected Learning Outcomes for Course:

Upon completion of this course, students will be able to:

- Accurately and completely dimension multi-view drawings according to ASME standards
- Create and apply different dimensioning styles according to drawing needs
- Apply tolerances to a drawing
- Draw a section view and apply a hatch pattern to the view
- Draw and dimension a variety of 3D problems
- Create an electronic portfolio of their best works

Assessment:
(How do students demonstrate achievement of these outcomes?)

Drawings, portfolio, mid-term exam, final exam, and homework assignments

Validation:
(What methods are used to validate your assessment?)

Feedback from internship employers, review of portfolios, performance on mid-term and final exam

Results:
(What does the data show?)

Students have acquired enough skill to continue on and be employed. The majority of students received a "B" or higher on their portfolios.

Follow-up:
(How have you used the data to improve student learning?)

Additional emphasis and assignments in areas suggested by advisory committee
(i.e. proper use of dimensioning and tolerances)

Budget Justification:
(What resources are necessary to improve student learning?)

Equipment for 3D printer. This is the second year that students were unable to get their 3D printed pieces before the end of the semester.