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 to the next CAD course, either CAD 226 or CAD 228. 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 lineweights, dimensioning)

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

Maintain license for CAD software and equipment for 3D printer.