**Course Title:** **CAD 153**

**Course Leader:** **Adam Bridendolph**

**Expected Learning Outcomes for Course:**

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

- Create solid models using parametric based software
- Create assemblies using created parts and the content center
- Create working drawings, exploded drawings and parts lists of assemblies
- Create animations of solid model assemblies
- Use the software to analyze material properties and perform finite element analysis

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

3 Projects, 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, or get a job in the workforce.

**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)

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

Maintain license for CAD software