

Course Title: CAD 228

Course Leader: Alan Zube

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?)

Assignments, tests, projects, final exam

Validation:

(What methods are used to validate your assessment?)

Feedback from internship employers, performance on tests and final exam

Results:

(What does the data show?)

Students get hired in the mechanical drafting industry

Follow-up:

(How have you used the data to improve student learning?)

Additional emphasis has been placed on the importance of detail in 3D drawings. We have implemented the use of a 3D printer so students can create a prototype of their mechanical part/assembly. This allows students to better visualize flaws in their model so that they may improve upon their design.

Budget Justification:

(What resources are necessary to improve student learning?)

Maintain license for CAD software, maintain 3D printer and purchase support and model material