Philosophy:
This course has been designed to give students background experiences in planning and developing computer-aided solid models for design and manufacturing and assembly modeling. Models and Assembly projects will utilize Fused Deposition Modeling (FDM) or Rapid Prototyping Printing in the course. This course is designed to deliver to the student enough background to enable them to competently work with CAD.

Course Requirements:
1. Complete assigned readings and examinations
2. Complete all projects/assignments.
3. Participate and complete a Group Project
4. Submit a portfolio of all work.

Methods:
Several methods should be utilized by the student in meeting the objectives, including the following…
1. Study of the text and other relevant material to gain an appropriate understanding of material.
2. Practice of skills learned by utilizing the lab outside of scheduled class times.
3. Completion of all required assignments, each with specific objectives to be mastered.
4. Attend Instructor lead demonstrations and lectures.

Attendance:
You will struggle if you do not attend; failure to do so can severely hurt your grade and is easily noticed upon assignment grading. Emergencies are understandable but in no way the norm.

Materials:
Flash Drive or other media storage

CAD Lab:
Please leave your work areas clean and have consideration for other students at work. Keep talking levels low and show other instructors, or graduate assistants, and fellow students courtesy. Questions can be directed towards these assistants, they are a valuable resource to you.
Evaluation Method:

- Textbook Projects (8) 400 points  A= 90% of points
- 3D Part Modeling Exercises (6) 300 points  B= 80% of points
- Examination #1 100 points  C= 70% of points
- Group Project 100 points  D= 60% of points
- Examination #2 100 points  F= below 60%

All assignments/projects are due at the assigned time. A penalty of 10% per day for late assignments will be enforced, with a maximum of 50% off.

Textbook Projects and Exercises:

- All projects/assignments are to be completed at the end of class on the day they are due.
- Each project will have different points assigned. Refer to the WebCT for worth of project.
- Due (via WebCT): assembly and part drawings, layouts, and other items assigned in textbook.

Group Project:

- The project will be completed and presented at the assigned time.
- The project will include part applicable drawings, assemblies, parts, bill of materials, cost estimation and calculations/justifications.
- Due: Submit Group Portfolio.

Examinations:

- Examination #1 will be based on your Part Modeling assignments.
- Examination #2 will be based on your Group Project Presentation (20 to 25 minutes).

Special Needs:

If a student has a disability that will likely require some accommodation by the instructor, the student must contact the instructor and document the disability through the Disability Services (581-6583 or at the 9th Street Hall), preferably during the first week of course. Any requests for special considerations relating to attendance, pedagogy, taking of examinations, etc. must be discussed with and approved by the instructor.