Instructor: Farzin Heidari
Office: IT Building-105
Phone: 593-4056
Class Meets: MTWR 1:00 – 2:50
Office Hours: MTW 3:00 – 5:00

Course Description:

The intent of this course is to provide educational experience in the study of advanced graphics, which includes 3D CAD and solid modeling. The overall objective of this course is to provide students a solid grounding in the basics of 3D design with an emphasis in new techniques for solid modeling.

Course Objectives:

1. Develop a basic understanding of 3D environment in order to optimize the overall effectiveness of the drawing production.
2. Understand the fundamental of solid modeling.
3. Solve problems associated with the operation of Solid Edge software.
4. Identify terms and definitions related to computer-aided design and solid modeling.
5. Display a satisfactory level of competence in the process of creating 3D models.

Text:

Handouts will be given throughout the semester.

Student Assignments:

Each student is expected to maintain a class/lab notebook which will include notes assignments and handouts. In the event of absences or tardies the student will be expected to contact a class member for the assignment. IT WILL BE YOUR RESPONSIBILITY TO MAKE UP AND TURN IN ALL COURSE ASSIGNMENTS. Course assignments will become due on the date specified. Late assignment will receive a late grade.

Counseling and Special Assistance:
Instructor will be available prior to and after each class session as time permits and during the posted office hours. Every effort will be made to assist students in the successful completion of the course. However, the responsibility for completion rests with the student.

**Class Attendance:**

The course grade will be affected by the student's full-time attendance. Tardies are annoying and disruptive and will be kept to a minimum. The course grade will be affected after two unexcused absences. Three tardies will equal to an unexcused absent. Maximum grade reduction due to tardies and absence would not exceed a letter grade.

**Grading and Examinations:**

Presentations and papers and class discussions will be graded using the following reference criteria: content organization, accuracy, and neatness. Quizzes will be graded on a percentage basis as follows: 90-100% = A, 80-89% = B, 70-79% = C, 60-69% = D and 59% or below = F. The semester grade will include a composite of papers, presentations, quizzes, class participation, and attendance.

**Course Outline:**

- **May 28**  
  Introduction.
- **May 29**  
  Model a part (Profile-base features, Drawing profiles).
- **June 2**  
  Sketch to part, thin region command.
- **June 3**  
  Sketch-point tool.
- **June 4**  
  Model a part.
- **June 5**  
  CAD/CAM applications.
- **June 9**  
  Project and Quiz.
- **June 10**  
  Advanced features and surface modeling.
- **June 11**  
  Test.
- **June 12**  
  Introduction to draft model.
- **June 16**  
  Placing principal and auxiliary views.
- **June 17**  
  Placing dimensions and annotations.
- **June 18**  
  Project.
- **June 19**  
  Applying assembly relationships between parts.
- **June 23**  
  Project (No class).
- **July 24**  
  Project. (No class).
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 25</td>
<td>Managing subassemblies within an assembly.</td>
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<tr>
<td>June 26</td>
<td>Patterning parts in an assembly.</td>
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<td>June 30</td>
<td>Sheet metal process (Review for final).</td>
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<td>July 1</td>
<td>Study Day.</td>
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<tr>
<td>July 2</td>
<td>Final Examination.</td>
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