

14:440:302 (Fall, 2016) CAD for Packaging Engineering
 Packaging Engineering Program, School of Engineering
 Rutgers University – New Brunswick, New Jersey

Instructor: Euihark Lee

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Office: CoRE 603 (732-445-3224)

Course Time: Thursday 10:20AM ~ 1:40PM

Office Hour: Wednesday 2:00pm ~ 3:00pm

Class Location: EN B-125

Course Website: <http://sakai.rutgers.edu>

Course Descriptions: Computer-Aided Design (CAD) applications of analysis, synthesis and design. Automated drafting. Development of general-purpose functions, components. Hands-on experience on CAD workstations

Course Schedule:

Week	Description	Assignment
1	Sketching 1 (Introduction, Basic Drawing Skills)	Workshop 1
2	Sketching 2 (Advance Drawing Skills1)	Workshop 2
3	Sketching 3 (Advance Drawing Skills, Basic Modeling)	Workshop 3 Final Project Team
4	Modeling 1 (Extrude, Revolve Cuts)	Quiz 1
5	Modeling 2 (Holes, Chambers, Rib, Rounds, , References)	Workshop 5
6	Modeling 3 (Mirror, Patterns, Sweeps)	Workshop 6
7	Modeling 4 (Sweeps, Helical Sweep, Loft)	Quiz 2 Project Proposal
8	Modeling 5 (Sheet Metal, Molding, TopsPro)	Workshop 7
9	Assembly 1 (Relations)	Midterm
10	Assembly 2 (Mechanism)	Workshop 9 Check point
11	Assembly 3 (Animation, Top down modeling)	Workshop 10
12	Drawing	Workshop 11
13	No Class	Quiz 3
14	Project Presentation	

Grading Policy: Homework and Workshops: 30%

Midterm: 30%

Quiz: 20%

Final Project: 20%

*** During the semester, there might be some adjustments of assignments, grades, extra credits, etc. Those will be announced on the course website. The "Reference score" in the above table will be adjusted accordingly.

Homework Policy: Homework and workshop assignments have to be handed in before due date. (Workshop) **Late submission will not be accepted.**

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Exam & Quiz Policy: Open books. Open notes. No discussions during the exams. No copying. No helping others. No opinion exchanges with classmates. Late submissions will **NOT** be accepted.

Project Policy: A project team will be consisted of 2 to 3 people. A team member will be elected to the team leader. The team leaders are responsible for gathering team members together, organizing team works, meeting the deadlines and check points, making good communications between the instructor and the team, and leading the team to achieve the highest performance in final projects. Be aware of the "team forming due", "proposal due", "check points", and "presentation time" in the course schedule. Final project due is **to be arranged**, including parts, assembly, presentation file, and paper report. All model parts should be assembled in assembly file. Connection relations between parts should be assigned explicitly for animations.