

- Develop assembly drawings using constraints,
- Design for Assembly and Manufacturing (Design for X),
- Work with a CAD software (Solidworks) to design an assembly and generate technical drawings of its components and assembly drawings,
- Work effectively in a team to analyze a product (assembly) to dissect and design it using CAD software.

Policies and Procedures (IMPORTANT!!!):

- **Homepage:** <https://sucourse.sabanciuniv.edu/>. The outline of lecture notes, assignments, projects and other course material will be posted on SUCourse.
- **Exams:** There will be midterm exams (progressive) during the semester. The midterm exams will be on -. There will be a comprehensive final exam during the final exam week. **The questions in the exams will not be same with the solved example questions.**
- **Assignments:** Homework assignments will be assigned regularly. **Quizzes will be in-class during Laboratory and Lecture hours.**
- **There will not be any extra-credit or assignments other than assigned.**
- **Missed Exams:** No excuses for missed exams will be accepted other than certified medical excuses from the campus health center or instructor’s approval. **A single comprehensive make-up exam will be offered after final exam.**
- **Projects:** There will be a semester-project and **groups of four** will be formed to work on the projects. The details of the project will be provided in coming weeks.
- **Individual effort:** Any academic dishonesty (i.e. cheating, plagiarism...) shall be resolved according to the University’s Academic Integrity Policy. **Any academic dishonesty such as cheating, plagiarism or unauthorized sharing will result in an “F” Grade in the course and/or disciplinary actions.**
- **Team effort:** Teams will periodically be asked to submit individual effort assessment. Teams having problem working together should make every effort to resolve them by themselves. If that doesn’t work, see the instructor for a help.
- **Objections to grading:** If there is any objection to grading, the student must inform the instructor in a written statement **one week after** grades given. The student must clearly explain why he/she deserves the missed-credit(s).
Attendance: Formal roll may be held on an occasional basis during the Lectures. Attendance to Rec. & Lab. hours is compulsory and final grade will be highly affected by Rec & Lab. Attendance. **If you don’t satisfy 70% of attendance either in recitations or laboratory hours without any excuse you’ll get “NA”. For this semester, you will FAIL the course if you miss 5 days.**
- Only certified medical excuses from the campus health center or prior instructor’s approval will be accepted. The feedback of the Teaching Assistants regarding your performance in recitation and lab sessions will be considered as of great importance.
- **Computer usage:** **You are expected and supposed to do CAD assignments, quizzes, project etc. on your own computer unless any prior approval of the instructor. Otherwise, you will get “0” from CAD assignments.**
- **Final Exam:** **If your Final Exam grade is below 25 points, you will directly get “F”.**
- **Lab Final Exam:** **If your Lab Final Exam grade is below 50 points, you will directly get “NA”.**
- **Course grade:** A weighted-average grade will be calculated and letter grades will be assigned to the overall grades.
- **Time conflict override:** **If you are registered to the course by time conflict override, you are the one who is responsible of any inconvenience regarding attendance, any missed lecture content, quiz etc.**

Tentative Grade Distribution for the course is as follows:

Assignments + Quizzes	10%
Midterm Exams	20% x 2
Project	10%
Attendance (Lecture)	5%
Final Exam	35%
Lab Final Exam	0% (Pass/Fail)

Total	100%

Tentative Schedule

Week	Topic
1	Introduction , Product development
2	Layouts, Technical Sketching
3	Geometric construction, Projections
4	Representation and manipulation of curves and surfaces
5	Solid modeling
6	2D representations
7	Sections, Auxiliary views
8	Dimensioning and Tolerancing
9	Geometric Dimensioning and Tolerancing (GD&T)
10	Assembly Modeling (Assembly Mates)
11	Assembly Modeling (Mechanical Parts)
12	Design for Assembly, Manufacturing etc.
13	Engineering Materials
14	Manufacturing Methods