

ME 1403 Engineering Practice & Graphics

Group Project Guidelines

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Project?

- Create a Solidworks model of a vehicle.
 - Plane
 - Bicycle
 - Car, etc.
- It can be any vehicle. But you must list / create 20 different parts of the vehicle.

Example



<p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.</p>		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<p>TITLE:</p>
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APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		SCALE: 1:50 WEIGHT:	
					SHEET 1 OF 1	

Courtesy: Group L6-2 (Fall 2017)

Requirements

- 5 parts per member per group.
 - i.e. if your group has 4 members, then the total number of part submission will be $(4 \times 5 =) 20$.
- All parts should have at least **three (3) features!**
- Final assembly should look like the actual vehicle you have selected
 - No frame or wheels rolling around,.
 - If you are doing a car it has to look like that car.
 - Concept designs are accepted but has to be approved of from the instructor at the initial planning stage.
- Vehicle must be life size
 - No scaled model.

Submission Schedule

	Date	Project Schedule (Assignment)	Submission (Sunday)
Week 6	Sep 24 – Sep 30	Introduction Assignment 1: Forming Project Group	No Submission this week
Week 7	Oct 1 – 7	Assignment 2: Blueprint/Draft Vehical Dimension Submission	Assignment 1: Submission
Week 8	Oct 8 – 14	Part 1	Assignment 2: Submission
Week 9	Oct 15 – 21	Part 2	Part 1: Submission
Week 10	Oct 22 – 28	Part 3	Part 2: Submission
Week 11	Oct 29 – Nov 4	Part 4	Part 3: Submission
Week 12	Nov 5 – 11	Part 5	Part 4: Submission
Week 13	Nov 12 – 18	Assembly Status & Discussion on Report	Part 5: Submission
Week 14	Nov 19 – 25	Assembly Status & Discussion on Presentation	
Week 15	Nov 26 – Dec 2	Project Full Package Submission (Report, Presentation, Part files, Assemblies and Drawings)	
Week 16	Dec 3 – 9	Final Exam: Monday and Tuesday -December 3 & December 4.	

Submission Requirements (Part Submissions)

- Drawings and Part Files:
 - Drawing MUST be a PDF.
 - Solidworks Drawing Files will not be graded.
 - All the dimensions in the drawings should be in mm.
- Requirements:
 - Format = A(ANSI) Landscape.
 - Front, Top, Right Side, and Isometric Views.
 - Even if they look identical, INCLUDE THEM.
 - All Dimensions! (No dimensions on the isometric view).
 - Show the texture in the isometric view.
 - Your Name and Group Number.
 - Vehicle Name.
 - Part Name.
 - **MUST BE A PDF.**
 - **Everything should be uploaded in the Blackboard.**

Submission Requirements (Final Submissions)

- **Must Include:**

- **All** SolidWorks Part Files (**Not PDF's**).
- All parts and assembly files has to be in a single zip folder (Group-members included).
- Report (Only submit 1 report per group).

- **Make sure to Include**

- Assembly Solidworks file.
- Assembly drawing PDF (**no dimensions**).
- All updated part files. Make sure all the parts fit together. (some of your parts may not fit together, so modify them as necessary, and make sure to submit the modified version of parts).

Create Groups

- Each Group will have 4 members.
- Fill up the provided group form (**One per group**).
- The form is uploaded in Blackboard.

Questions?