

Assessment 3

The purpose of this project is to help prepare you for teamwork and design and to also give you practice in communicating your work both in writing and in person. There is an interim due date of **Monday, November 23** to turn in a rough draft of a portion of your work, and the final written report is due by **Wednesday, December 2**. Students will present the final project in class on **Monday, December 7**.

This problem comes from your book (problem 9.9, page 200). You will be placed in small teams for this project. Using the 10-stage design process, have your team develop a portable, garage-like covering for a bicycle that can be stored somewhere on the bike when not in use. This process was covered in class and is also described in detail in Section 9.2.

You will have a homework assignment related to this project where you must identify key milestones and set interim due dates and assign responsibilities for specific tasks. It is expected that you will keep in contact with me as you complete this assessment. Everyone in the group should participate. If difficulties arise within the team, you must notify me immediately.

You will need to complete a written report that outlines each of the ten stages that your team went through in finding a solution. The text in the report should be significant. It should follow all formatting requirements defined in the syllabus. You will be expected to turn in a rough draft of your report, with at least the first four sections completed by **Monday, November 23**. This can be turned in on Blackboard by any one of the team members, or in class. Your final report must be turned in by **Wednesday, December 2**. This final copy should be turned in during class time.

Your team will also need to give a 15-minute presentation in class on your solution. Every person in the group must talk during the presentation. Presentations will be done on the final exam day of **Monday, December 7**. If you will be using PowerPoint slides (which I highly recommend), you should email me your slides by 10 pm the night before, or arrive 15 minutes before class starts to make sure your visuals work. You should bring a backup copy of your slides for use on the projector in case there is a technical difficulty.

The grading scheme is shown below. Anything turned in late will earn, at most, only half credit.

Grading Scheme for Assessment 3

Item	Due Date	Points
First Draft Submitted (20%) <i>(same grade for everyone in group)</i>	Nov 23 - 8:00 am	
Stage 1 Identify the problem/product innovation		10
Stage 2 Define the working criteria/goals		10
Stage 3 Research and gather data		10
Stage 4 Brainstorm/generate creative ideas		10
Final Written Report Submitted (42.5%) <i>(same grade for everyone in group)</i>	Dec 2 - 8:00 am	
Contains no spelling or grammatical errors		5
Stage 1 Identify the problem/product innovation		8
Stage 2 Define the working criteria/goals		8
Stage 3 Research and gather data		8
Stage 4 Brainstorm/generate creative ideas		8
Stage 5 Analyze potential solutions		8
Stage 6 Develop and test models		8
Stage 7 Make the decision		8
Stage 8 Communicate and specify		8
Stage 9 Implement and commercialize		8
Stage 10 Perform post-implementation review and assessment		8
Oral Presentation in Class (7.5%) <i>(same grade for everyone in group)</i>	Dec 7 - 8:00 am	
Everyone in group spoke an equal amount of time		5
Presentation was ready to go before class started		5
Presentation contains no spelling or grammatical errors		5
Oral Presentation in Class (12.5%) <i>(different grade for each group member)</i>	Dec 7 - 8:00 am	
Dress is appropriate		5
Arrived on time		5
Spoke loud enough for everyone to hear		5
Appeared well-rehearsed and spoke with reasonable confidence		10
Group Participation Grade (17.5%) <i>(different grade for each group member)</i>	Dec 7 - 8:00 am	
Completed group participation grades for all members of group		10
Score recommended by self-evaluation and group evaluation		25
Total		200

I reserve the right to reduce or deny credit for this assessment on an individual basis in cases of extreme non-participation, including failing to participate in the final presentation.