Final Project Grading Criteria
For Tuesday, June 8th, 2010 – 5-8pm
200 Points Total

The following is a breakdown of the points allocated toward the Final Project:

• Week 8, abstract	10 points max
• Week 9, project, preliminary part and assembly drawings	10 points max
• Week 10, project, final part and assembly drawings	20 points max
• At the Final, Final Project SolidWorks part and assembly files	60 points base
• At the Final, Final Project Toolbar or Function Presentation	100 points base
TOTAL	200 points

The SolidWorks files will be graded based on the following criteria:

Part Sketches — 20 points base

Parts are suggested to have a minimum number of dimensions, sketch relations or sketch entities (this judges part complexity). A part with the suggested amount will get the base value. Any extra items above the suggested amount will have points added to it and any less will have points subtracted from it. Only the first 5 complex sketch related parts will be evaluated and averaged. Points are taken off for errors.

Part Features — 20 points base

Parts are suggested to have a minimum number of features (this also judges part complexity). A part with the suggested amount will get the base value. Any extra features above the suggested amount will have points added to it and any less will have points subtracted from it. Only the first 5 complex feature related parts will be evaluated and averaged. Points are taken off for errors.

Assemblies — 20 points base

Assemblies are suggested to have a minimum number of parts (this judges assembly complexity). An assembly with the suggested amount will get the base value. Any extra parts above the suggested amount will have points added to it and any less will have points subtracted from it. Points are taken off for errors.

Note: Parts with very complex sketching and features will be substituted for the lack of quantity of items in an assembly.

Final Project Toolbar or Function Presentation, graded on the following criteria:

Time — 20 points base

Each student is allocated 5 minutes for their presentation. Any substantial additional time or less time will be subtracted from the base value.

Toolbar / Function — 40 points base

This toolbar value is rated on the quantity of tools presented. A SolidWorks function (like Routing and Simulation) will be assigned a value based on its presented complexity and will have a higher base value since it usually takes more iterations and less toolbar choices.

Toolbar/Function Operations/Iterations — 30 points base

This value is based on the quantity of operations or iterations presented to the class to compete a task.

Toolbar/Function Product — 10 points

This value is based on whether the operation presented in the above task resulted in a desired outcome.

Extras may include videos of project motion and items similar to what has been awarded extra credit in class.