

Final Project Grading Assessment

Thursday, June 9, 2011

200 Points Total

Name _____

Your Final Project files and drawings can serve as a portfolio to be demonstrated to potential future employers. The drawings will not be marked up but will be graded on this evaluation form. The drawing set and this form will be available as a packet in the *Box* during the first 2 weeks of fall quarter or by special arrangement.

Grading will be as follows:

Final Project Abstract, (up to 20 points total, 10%) I hope you handed this in, check grade sheet.

Final Project Peer Evaluation, (50 points total, 25%)

- Your score is determined by the average value of your peers' evaluations (the Pre-Presentation value is serving as an example on the gradesheet which will be replaced by the Final Presentation evaluation). Comments are welcome but not graded. Exceptions follow:
 - All 10s on every sheet or all 0s or any number (you will receive 0 points in this section)
 - An apparent fair assessment (no penalty)
- Time, 6 minutes, practice your presentation!
 - For each minute over or under subtract 5 points

Final Project Design (90 points total, 45%) measures project involvement including the SolidWorks toolbar or function demonstration plus your model complexity. There is an opportunity for extra credit for going beyond what is asked for in this section, up to 20 percent.

- SolidWorks toolbar or function demonstration, measures the research, practice and competence for the toolbar or function that you are attempting to demonstrate. (30 points total)
 - Demonstrate at least 5 tools in a toolbar or 2 areas in a function (i.e. simulation, a before and after) (20 points)
 - Demonstrate at least 15 steps or choices total in either a toolbar or function (10 points)
- Model complexity, a measure of modeling complexity which attempts to measure effort and competence in your model by quantifying sketch relations, sketch dimensions, part features and assembly parts (60 points total).
 - An average of 20 appropriate sketch relations or dimensions for the 5 most complex parts (20 points) and/or
 - An average of 12 appropriate part features for the 5 most complex parts (20 points) and/or
 - An average of 10 appropriate parts in an assembly (20 points)
- Send these files as a "Pack and Go..." zip file with the photo real image of your assembly that will be on your Cover sheet. A 20% penalty for each missing file and image.

Final Project Drawings, 5 drawings. Four drawings will be graded with the best 2 part drawings plus the Cover and Exploded Assembly sheets (10 points each, 40 points total, 20%). There is an opportunity for extra credit for going beyond what is asked for in this section. A 20% penalty for a missing or incomplete 5th drawing. A 20% penalty for printing during or after the presentations (print before class).

- Cover sheet with a photo real image(s) of your assembly along with project name and designer.
- At least three part drawings of your choice (choose the more complex ones)
- Exploded assembly drawing with a Bill of Materials, Balloons and Exploded Line Sketches (very few dimensions on this sheet but have basic dimensions for length and width if appropriate)
- Other drawings for extra credit if desired but only if it adds to the information attempting to be demonstrated with your project
- All drawings graded as follows:
 - B size printed in the lab, ANSI dimensioning standard, appropriate precision, appropriate sheet scale, views laid out with appropriate spacing and symmetry, print in color (1.5 points each sheet)
 - Title Block items as prescribed throughout the quarter
 - Logo, your name, part name, file name, company name, units of measure, dimensioning standard, confidentiality statement (filled in with your company name) (1.5 points each sheet)
 - View titles properly placed on the Sheet Notes layer, CAPITALS, centered below and underlined (1 point)
- Cover Sheet drawing graded as follows:
 - Image(s) of the assembly or an important part, make this look attractive using various settings, angles, textures, scenes, image transparency and lights (4 points), project name and designer in large bold lettering (1 point each)
- Part drawings graded as follows:
 - Three standard views (ignore redundant views if needed), Isometric view with at least 2 auxiliary view(s) of your choice and as many as needed for extra credit but only if it adds to the information attempting to be demonstrated with your project (2 points)
 - Various display states for the different views as appropriate, must show some variation (1 point)
 - Dimensions, complete, organized and visible on the Dimension layer (3 points)
 - At least 4 dimensions with 3 different types of tolerances on the appropriate features on your parts (1 point)
 - At least 3 Datums and 3 Feature Control Frames on the appropriate toleranced dimensions, features or surfaces referring to the above datums. They need to make sense. (2 points)
- Exploded assembly drawing graded as follows:
 - Bill of Materials, on the Sheet Notes layer, organized and neat, must make sense (2 points)
 - Balloons, complete, organized and visible on the Dimension layer (2 points)
 - Explode Line Sketch, complete, organized and visible on the Dimension layer (2 points)