

Architectural CAD, IET-161
Fall 2011, Finals Week,
Commercial Project Grading Criteria
200 points total

Name: _____

Day and date: _____

Drawing grading criteria (50 points): Your Commercial Project will have the following items included in a sheet set as described below. Make certain that you understand your markups and incorporate the corrections into your Final Project drawings.

Sheets

Number them in ascending order. Incorporate all of the elements for these sheets as required from the previous weeks' assignments including Titleblock items. Title block items also include fields filled in from your Project Information and your Sheet Properties.

General sections are often numbered similar to the following

Cover Sheet, no number, 000, 001
Site Plan 010 series
Floor Plans 100 series
Ceiling Plans 200 series
Elevations 300 series
Sections 400 series
Schedules and/or Legends 500 series
Details 600 series

Notes:

Legends and schedules may be included on other relevant sheets if there is room.

If a sheet series is blank then move up the numbering to maintain the sequence.

Extra credit for extra effort, items, and sheets and may include, sheet notes that better explain elements of your project, extra schedules, legends and similar items.

- Titleblock (7 points)
 - Logo, company name and address, orientation, size (extra credit for more items)
 - Fields lined up, information filled in
 - All text that you control CAPITALized
- Cover Sheet (5 points)
 - All text that you control CAPITALized
 - Project title
 - Project sub title
 - Project address
 - Project team members
 - Image rendering of the exterior of the proposed project
 - Map of the project site with title
 - Sheet list with title
 - Fields include, Sheet Number, Sheet Name, Designed By, Drawn By, Checked By, Approved By
 - Center all fields except the Sheet Name
 - Use requirements from previous schedules

- Site Plan (5 points)
 - Hidden line visibility for view
 - View is cropped and crop boundary hidden
 - View title orientation
 - North Arrow (extra credit for a modified or unique one)
 - Rotate the arrow off center, consistent orientation and location on all plan sheets
 - Graphic Scale Bar, choose the correct size (extra credit for a modified or unique one)
 - Hide your building to reveal your Building Pad (don't show the building)
 - Hide other non relevant non site plan building features
 - Property line
 - Show dimensions from property line to the building pad
 - Show other relevant dimensions
 - All text that you control CAPITALIZED
- Floor Plan, include the following from the list below. If the items in the list do not fit on the floor plan sheet then move them to a Schedules or Legends sheet. The items listed below are in order of importance so move the bottom items first to the new sheet. Keep the Door, Window and Wall Schedules together (7 points).
 - Plan fills sheet, centered
 - View is cropped and crop boundary hidden
 - View title orientation
 - North Arrow
 - Graphic Scale Bar
 - Hidden line visibility
 - Dimensions (use previous requirements)
 - Tags for doors, windows and walls, organized
 - All text that you control CAPITALIZED
 - Door Legend for plan symbols (see videos above)
 - Window Legend for plan symbols (see videos above)
 - Room Schedule (use previous requirements)
 - Door Schedule (use previous requirements)
 - Window Schedule (use previous requirements)
 - Wall Schedule (use the following fields: Type Mark, Family and Type, Fire Rating (list in hours), Length, Width, Area (order and center the Mark field))
- Reflected Ceiling Plan (if you have a suspended ceiling, otherwise a modified floor will be graded) (4 points)
 - Hidden line visibility
 - View is cropped and crop boundary hidden
 - View title orientation
 - North Arrow
 - Graphic Scale Bar
 - Lighting Fixture Schedule with the following fields in order: Fixture (Mark), Wattage, Circuit # (leave this blank), Electrical Data, Family and Type, Lamp, Luminous Intensity
 - Center the Fixture (Mark) column
 - Use a new sheet(s) if you need more room, name the sheet "Lighting Fixture Schedule"
 - All text that you control CAPITALIZED
- Elevations, 2 or 4 sheets (3 points)
 - Hidden line visibility
 - All views cropped and crop boundary hidden
 - View title orientation
 - Elevation relevant dimensions only, include all that apply
 - Graphic Scale Bar
 - Door Legend for elevations
 - Window Legend for elevations

- Sections, 1 or 2 sheets (3 points)
 - Hidden line visibility
 - All views cropped and crop boundary hidden
 - View title orientation
 - Section relevant dimensions, include all that apply
 - Graphic Scale Bar
 - All text that you control CAPITALized
- Schedules/Legends (4 points)
 - If not included on other sheets
 - List in order per the sheet numbering sequence listed above
 - Incorporate all of the elements required this quarter
 - All text that you control CAPITALized
- Details (6 points)
 - Hidden line visibility
 - All views cropped and crop boundary hidden
 - Smaller scale than the parent view (1" = 1'-0", 1/2" = 1'-0", etc...)
 - Provide at least 6 details similar to what has been done in class
 - Have at least 5 annotation elements such as callouts and dimensions per detail
 - Must have annotation callouts with dog leg leaders
 - 3/32" text size, Arial, CAPITAL lettering
 - Insert break lines
 - Show examples of a 2D filled regions
 - One section detail of an exterior wall with insulation
 - One section detail of an interior wall with a fire stop
 - All text that you control CAPITALized
- Print your sheets, have these printed before the Final on Tuesday! or points off in a big way
 - Print out all sheets 1/2 size (11" x 17" ANSI B size)
 - Staple or fasten in upper left corner
 - Print out 3 full size sheets, in color (6 points total)
 - Cover sheet, first floor plan and one of your elevations or section sheets (choose the one with more detail)
 - Print on the HP800 plotter, choose the following settings
 - Put in the 24" sized paper roll
 - Through Revit,
 - Choose ARCH "D" size
 - Click Setup button
 - Choose, Center, Landscape, Zoom to 100%
 - Click Properties button
 - Check the "Autorotate" button
 - Select the roll size of 24"
 - Start printing and if its not right go to the plotter and "cancel" it, check and change your settings and start again.
 - Measure your Graphic Scale Bar

Toolbar Demonstration grading criteria (30 points):

- Name the the toolbar or function
 - Demonstrate the tool(s) or function(s)
 - Demonstrate the steps involved
 - Demonstrate different options
 - Demonstrate the effects of the different options

You will graded on the quantity of the steps and/or options demonstrated (at least 8)

Project Presentation, as evaluated by your peers (40 points):

Commercial Project presentations on Tuesday. You may use the following guidelines or something similar for your presentations:

- Introduction, provide your name, major and class position (senior, junior, etc...)
- Introduction to your project, project name and service provided
- Tour
 - Start with a 3D view, the floor plan or other view. Since these are all commercial projects your design should be facilitating the interaction between customers and staff, explain and demonstrate this
 - Show how a customer will approach the building (street and parking)
 - Show how a customer will enter the building and interact with staff
 - Show and explain the service area
 - Show the support areas
 - Show auxiliary areas
 - Move on through the model and demonstrate any features that you think are significant in your project that may not be apparent in other student projects or that have not been demonstrated in class
 - Show elevations, sections, 3D view, camera views and/or renderings of any features that you feel help demonstrate how your building functions and the features associated with that function
 - Show the more significant components used and where they came from
 - Show a brief Walk Through, 1 minute maximum with narration
- Describe a toolbar, function or modeling technique unique to what has been demonstrated in class and that you have applied to your project.
- Conclusion:
 - Summary
 - Ask for questions
 - Ask for suggestions i.e. "how can I model this differently or better"
 - I would invite interaction and would encourage raising your hand to interrupt for explanation or to share a different technique.

Keep your presentation to around 7 minutes, practice this! Points taken off for over or under this time.

Evaluation feedback forms will be handed out at the beginning of the class and include the following criteria:

- Sign your name on the cover only
- Fill in the student's name, on each page in the book, in the space provided
- Provide suggestions and constructive comments (points off for a blank page)
- Provide a fair evaluation on your peers' projects based on the listed criteria. Circle the number that you feel best describes your peer's placement in each evaluation section.
 - Complexity and Effort: How complex or how much effort do you think this student put into the project (consider the number of elements and the quality of the details apparent in the model)?
Comments: A lot of effort, Average amount, Needs more effort, Very little effort
 - Design Quality and Completeness: (does it look attractive, does it look like the real thing, is it put together correctly, does it work for its intended function, is it complete?)
Comments: Looks great, Looks good, Needs work, Not correct, Incomplete
 - Toolbar and tool demonstration (did the student demonstrate all of the tools or functions, will you be able to use this tool or function after this demonstration, did you learn something about these tools?)
Comments: Very informative, Mostly complete, Could have shown more, Learned little

- Presentation (spoken clearly, easily understood, organized, did it take too long, explained project?
Comments: Great job, Very good, Average, Needed better preparation and rehearsal
- Overall Impression of the project and presentation:
Comments: Great job Good job Average Needs work Incomplete

The item(s) that I feel need(s) more work are:

The best thing about this project is:

Project Design grading criteria (60 points): May include everything we have covered in Revit.

- Custom levels, renamed in CAPITALS (2 points)
- Custom walls, one exterior, one interior, rename these with the word "Custom" preceding the name (5 points)
- Custom floor, rename this with the word "Custom" preceding the name (3 points)
- Appropriate number of windows and doors at consistent heights and symmetry (6 points)
- Rooms and room bounding for all internal areas (4 points)
- The following three categories will be counted and totaled for a single grade. This allows someone with a very large project with many walls, floors, ceilings, windows and doors to be judged with a smaller project that has many more components (about 40 points).
 - Walls, floors, roofs, ceilings, doors and windows will be counted, repeating items such as windows may be counted less, expecting about 40 items
 - Components will be counted, these will include exterior and interior items, they may include items such as lights, equipment, plumbing fixtures, furniture and similar items, repeating items such as ceiling lights may be counted less, expecting about 50 items
 - Site plan components such as contours, subregions, parking, landscaping and similar items, repeating items such as plants and lights may be counted less, expecting about 30 items