Architectural CAD, IET-161 Name: _____
Spring 2013, Finals Week,
Final Project Grading Criteria Day and date: _____
Drawing and Project Design, 120 points total

Drawing grading criteria (60 points): Your *Final Project* model will have the following items listed below evaluated in a sheet set. Make certain that you understand your markups from previous assignments and incorporate those corrections into your *Final Project* drawings.

- Titleblock and general sheet items (5pts)
    1. Logo (2pts), company name and address, orientation, size (1pt)
    2. Border width, fields lined up, information filled in, text size (1pt)
    3. Sheet name, SHEET NUMBER, Project Status (1pt)
    4. All text that you control CAPITALized, text and layout neat and orderly
- Cover Sheet (8pts)
    1. Project title, Project sub title (1pt), Project address, Project team members (1pt)
    2. Image rendering of the exterior of the proposed project (1pt), looks correct (1pt)
    3. Map of the project site with title (1pt)
    4. Sheet list schedule with Title
        a. Fields include: Sheet Number, Sheet Name, Designed By, Issue Date (1pt), Center all fields except the Sheet Name (1pt)
        b. Order by Sheet Number, use requirements from previous schedules (1pt)
    5. All text that you control CAPITALized, text and layout neat and orderly
- Site Plan (8pts)
    1. Plan fills sheet, centered, hidden line visibility for view, view is cropped and crop boundary hidden (1pt)
    2. View title orientation (just below the object in the view with a short tail) (1pt)
    3. North Arrow (modify per the video), rotate the arrow off center, consistent orientation and location on all plan sheets (1pt)
    4. Graphic Scale Bar (video modified), choose the correct size (1pt)
    5. Hide your building to reveal your Building Pad (don't show the building), hide other non-relevant non site plan building features (1pt)
    6. Property line, Label Contours, Spot Coordinates for the corners of the property (1pt)
    7. Show dimensions from property line to the building pad, 1/8” precision (1pt), show other relevant dimensions, other site plan elements (1pt)
    8. All text that you control CAPITALized, text and layout neat and orderly
- Floor Plan, one sheet graded, 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 and Window Schedules together (21pts).
    1. Plan fills sheet, centered, detail level medium, hidden line visibility for view, view is cropped and crop boundary hidden (1pt)
    2. View title location – orientation (1pt)
    3. North Arrow (1pt), consistent orientation and location on all plan sheets (1pt)
    4. Graphic Scale Bar, choose the correct size (1pt)
    5. Dimensions: all of the exterior dimensions from finish face exterior (1pt), various interior wall, window, door and component placements, limit to 10 total (1pt)
    6. Room bounding with tags and square foot description (1pt), tags for doors and windows (walls extra credit), neat and organized (1pt)
    7. Door Legend for plan symbols 4 minimum (1pt), Window Legend for plan symbols, 4 minimum (1pt)
    9. Door Schedule per the requirements in class (5pts)

10. Window schedule in a similar manner as Door Schedule described above, with WINDOW TAG (Mark), TYPE MARK, DESCRIPTION, WIDTH, HEIGHT, MANUFACTURE, MODEL (5pts)
11. All text that you control CAPITALized, text and layout neat and orderly

- Exterior Elevations, 2 or 4 sheets (4pts)
    1. Elevations centered with equal spacing around views - top and bottom and left and right, detail level coarse, hidden line visibility, All views cropped and crop boundary hidden, View title orientation (2pts)
    2. Graphic Scale Bar, choose the correct size (1pt)
    3. Elevation relevant dimensions only, include all that apply (1pt)
    4. Door Legend for elevations, Window Legend for elevations, (extra credit 1pt each)
    5. All text that you control CAPITALized, text and layout neat and orderly
- Interior Elevations for Extra Credit per the requirements above (3pts)
- Building Sections, 1 or 2 sheets (4pts)
    1. Sections centered with equal spacing around views - top and bottom and left and right, detail level coarse, hidden line visibility, All views cropped and crop boundary hidden, View title orientation (2pts)
    2. Graphic Scale Bar, choose the correct size (1pt)
    3. Section relevant dimensions, include all that apply (1pt)
    4. All text that you control CAPITALized, text and layout neat and orderly
- Schedules/Legends
    1. If not included on other sheets
    2. List in order per the sheet numbering sequence listed above
- Details (9pts)
    1. Details centered with equal spacing around views - top and bottom and left and right, detail level medium, hidden line visibility, All views cropped and crop boundary hidden, View title orientation (2pts)
    2. Smaller scale factor than the parent view (1" = 1'-0", 1/2" = 1'-0", etc...) (1pt)
    3. Provide at least 4 details similar to what has been done in class (1pt)
    4. Have at least 4 annotation elements such as callouts and dimensions per detail, annotation callouts with 2 segment (dog leg) leaders, 3/32" text size, Arial (2pts)
    5. Neat and orderly with Break Lines, Masking and Arrange Order (2pts)
    6. One section detail of an exterior wall with insulation and fire stop (1pt)
    7. All text that you control CAPITALized, text and layout neat and orderly

- Print your sheets (10pts), have these printed before the Final on Wednesday or points off
    - Print out all sheets 1/2 size (11" x 17" ANSI B size) 15 maximum
        - Staple or fasten in upper left corner or along left edge (2pts)
        - Scale, Measure your Graphic Scale Bar (1pt each)
    - Print out 2 full size sheets, in color of your Cover sheet and first floor plan (optional)
        - Scale, Measure your Graphic Scale Bar

Project Design grading criteria (60 points): Below is as list of various project related design elements covered in Revit in this class this quarter.

1. Custom levels, renamed in CAPITALS, aligned, same side (1pt)
2. Permanent and locked exterior dimensions, whole units to1/2 foot increments, that define the whole building (2pts)
3. Download from RevitCity or Seek a custom front door (1pt), permanent dimensions, equality constraint (1pt)
4. Linear or Circular Array of some windows, doors or components, provide a Camera View of this named “CAMERA ARRAY” (2pts)
5. Views, create an Interior Elevation of a long wall with doors and/or windows on it, descriptive name in CAPITAL lettering (1pt)
6. Create and install a custom floor of your choice named using Revit conventions, modify the structure to be 11 1/4”, “Softwood, Lumber”, add a structure layer on top of the lumber using “Plywood Sheathing” at 1/2” (1pt), add a “Finish 1” layer on top of the structural layers of “MDF Medium Density Fiberboard” at 1/2”, add a “Finish 2” layer on top using a unique element from the “Autodesk Materials” library of the appropriate thickness (1pt), install floor cutting into the core of the exterior walls and the lower level walls terminating below the floor (1pt)
7. Install a foundation stem or basement wall, modify family to make the width of your wall the width of your first floor wall core (1pt), concrete for the structure, appropriate name (1pt), create a “T. O. FOOTING” level to a specific depth (1pt), complete wall around the perimeter of your building under the first floor wall core (1pt) create a floor plan (1pt)
8. Install a footing under the stem wall, modify a family to make the width of your footing 24” wide (1pt), concrete for the structure, appropriate name (1pt), adjust your T. O. Footing view range to a negative -1’ – 0” (1pt), footing continuous and complete (1pt).
9. Install 2 different ceilings visible on a ceiling plan (1pt), extra credit for lights.
10. Appropriate number of windows and doors at consistent heights and symmetry (3pts)
11. Walk Through, 1 minute, inclusive, not too fast (6pts)
12. 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 may have many more components. All items counted must enhance the model not just occupy open space. Repeating items such as ceiling lights, parking components and similar items that can be duplicated via arrays may be counted less or as one item. (30pts total)
    a. Walls, floors, roofs, ceilings, doors, curtain wall systems and windows will be counted, expecting about 30 items
    b. Components will be counted, these will include interior items such as lights, equipment, plumbing fixtures, furniture and similar items, not model groups, expecting about 40 items
    c. Site plan components such as contours, subregions, parking, landscaping and similar items, expecting about 20 items
    d. Extra credit for extra items beyond what is required.