



Specialist Diploma in Building Information Modeling (BIM)

BM3804: BIM for Design Coordination and Documentation

BIM Lab 2: BIM Design Visualization

BCA ACADEMY
of the built environment

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BIM for Design Coordination and Documentation – Lab 2

- **BIM for Design Visualization - Content**
 - **General Notes – overview and objective**
 - **Viewing tools**
 - **Area and Space Planning**
 - **Project Phases and Phased Design**
 - **Design Options**
 - **Rendering & Walkthrough**

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- **Overview**
- In this Lab, you will explore the tools available in the Autodesk Revit software to create several types of common project views and specify the information that appears in them
- you will learn how to:
 - Create 2D views of their building model, such as plans, elevations, and sections—creating new views from scratch and duplicating existing views
 - Create 3D views by duplicating and editing the default 3D orthographic view
 - Customize the information presented in those views

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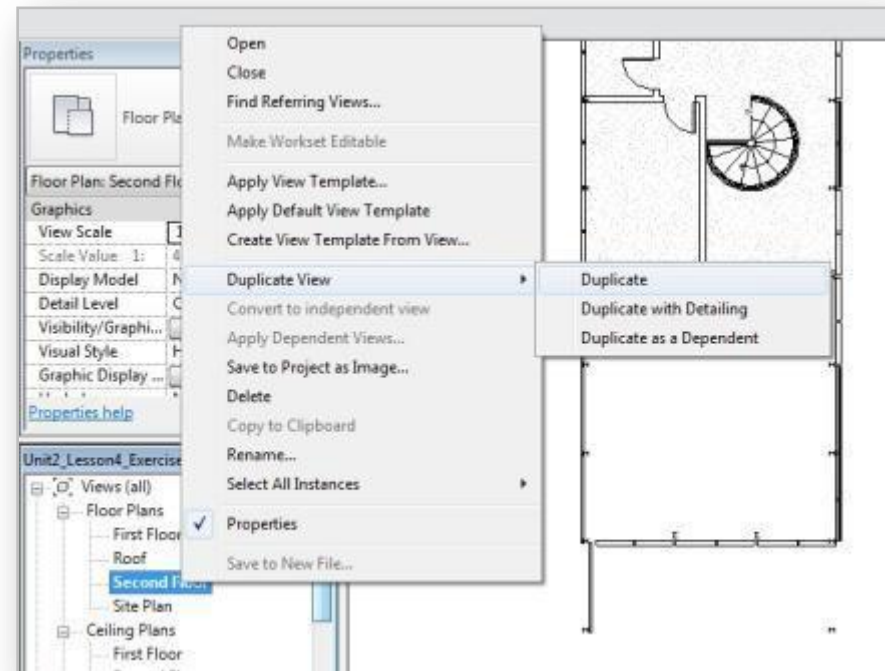
- **Objective:**
- After completing this lesson, students will be able to:
- Use 2D and 3D views to accurately convey information about their design to different audiences
- Adjust the properties of model views to emphasize key elements of their design and hide unnecessary or unwanted detail

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Lab Exercise 2.1.1: Creating Plan Views

In this exercise, students will learn how to:

- Create new plan views
- Select which types of elements appear by setting visibility graphics overrides
- Turn on cropping and resize the crop region
- Adjust the view range (the height of the cutting plane and the view depth)
- Select another level to underlay

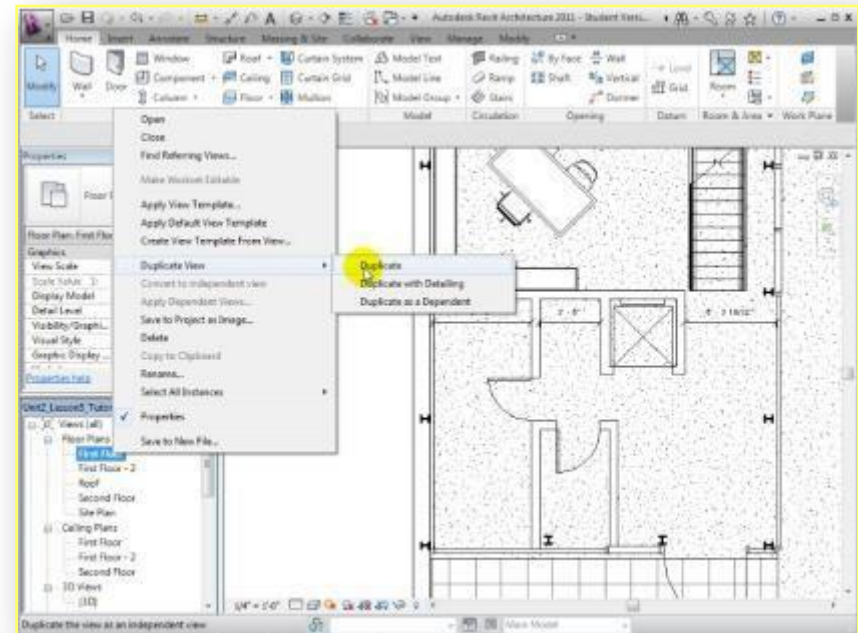


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Creating New Plan Views

Duplicating plan views with and without detailing (annotations)

- Select plan view
- Right-click view name in Project Browser
- Duplicate with or without detailing
- Duplicate as a dependent
- Rename new view

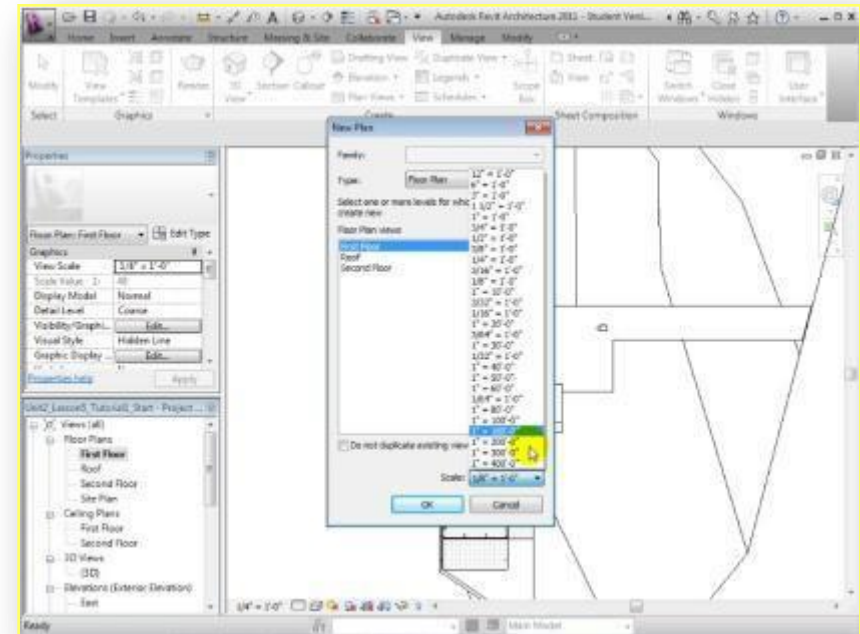


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Creating New Plan Views

Using the Plan View tool to create additional plan views for a level

- Open the Plan View tool
- Uncheck Do not duplicate existing views checkbox
- Choose view scale
- Select levels of new views to create
- Repeat for ceiling plans, plan regions, and area plans



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Customizing and Presenting Views

Filtering the elements to show in a view

■ Set Visibility/Graphics overrides

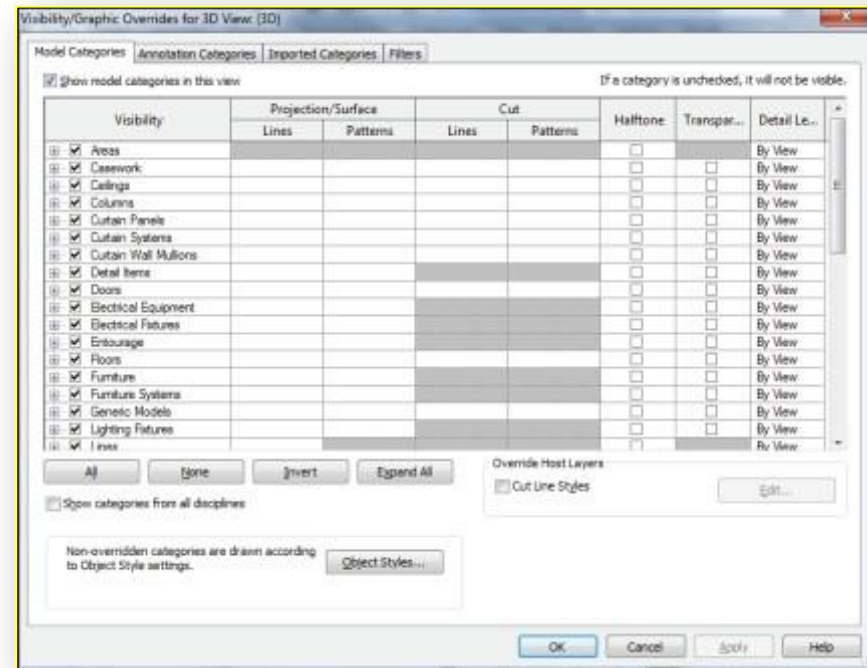
■ Model objects

- Walls / Doors / Windows
- Floors / Roofs
- Components

■ Annotation objects

- Object Tags
- Dimensions / Text

■ Imported objects

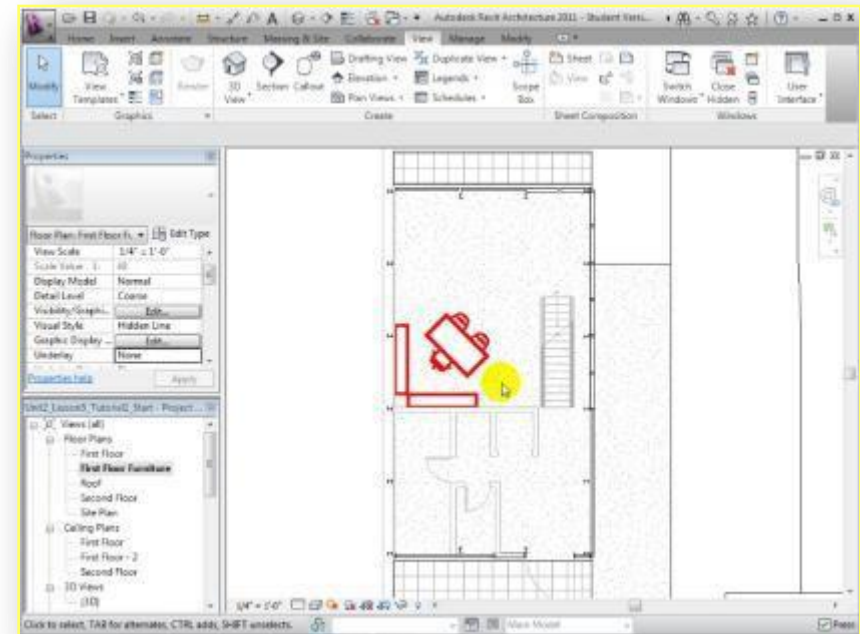


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Filtering Elements Displayed

Filtering and highlighting elements using visibility graphics overrides

- Open visibility graphics overrides
- Adjust appearance of element categories
- Turn on or off visibility
- Override line weight or color
- Choose halftone or transparent display effect

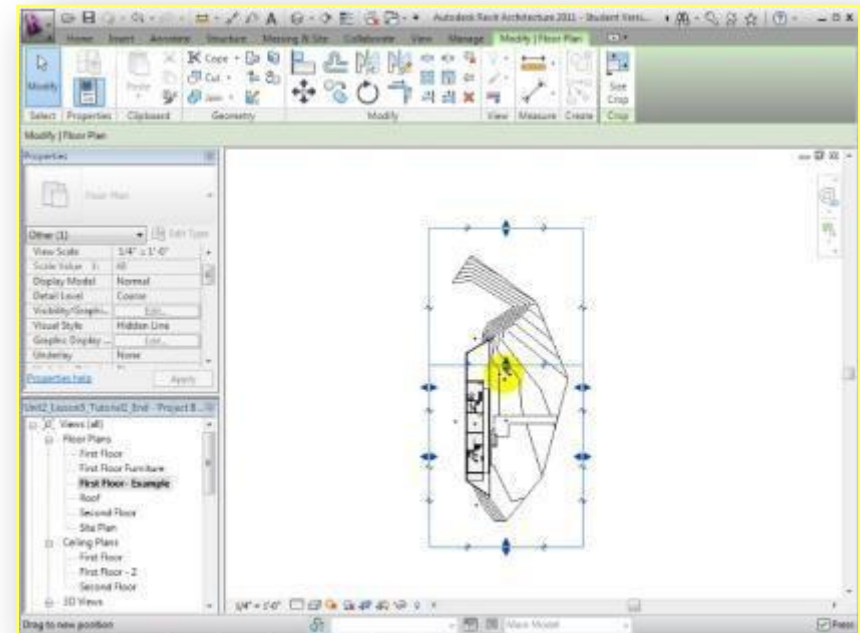


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Setting View Properties and Display Options

Turning on cropping and resizing the crop region for a plan view

- Use controls in View Control bar to quickly set whether to:
 - Crop the view
 - Display crop region
- Select boundary of crop region, then:
 - Drag boundary to move it
 - Drag blue arrows to resize it

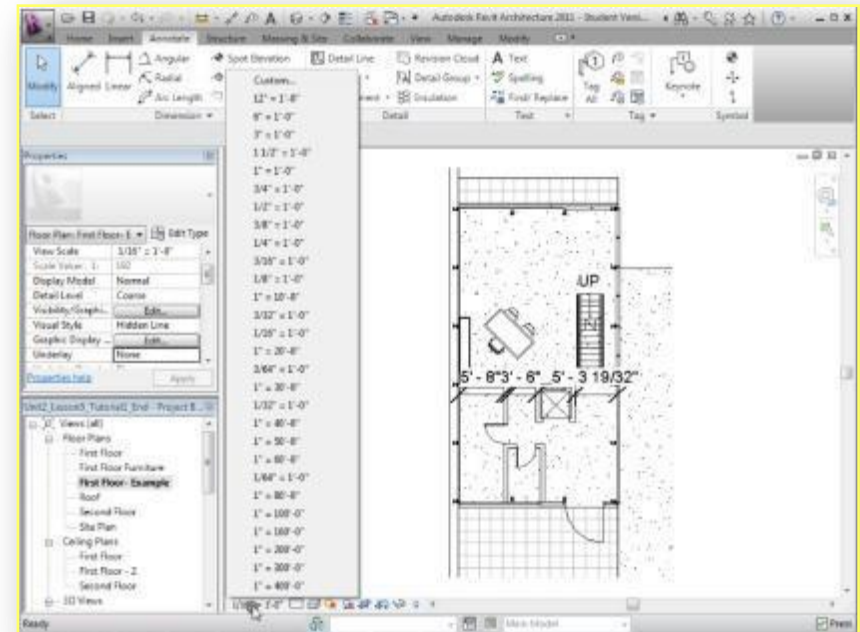


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Setting View Properties and Display Options

Changing the scale and adjusting the level of detail

- Use controls in View Control bar to quickly set
 - View scale
 - Level of detail
- Elements in view may change to show more or less detail
- Text annotations and dimensions maintain the same absolute size

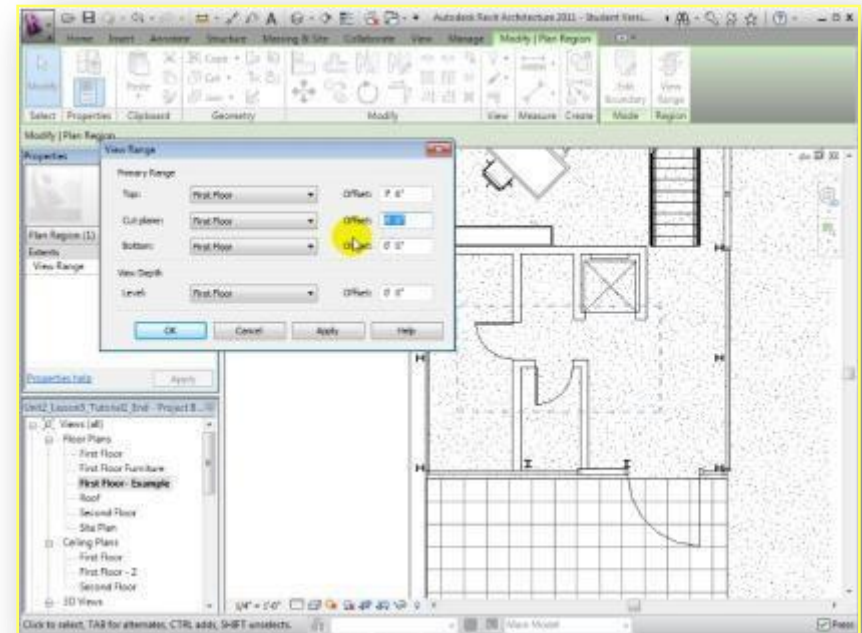


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Setting View Properties and Display Options

Adjusting the view range (cut plane and view depth) for a plan or region

- Edit the view range in view properties
- Set elevation of:
 - Cut plane
 - Top and bottom of range
 - View depth
- Create plan regions to use a different view range for specific areas within a plan

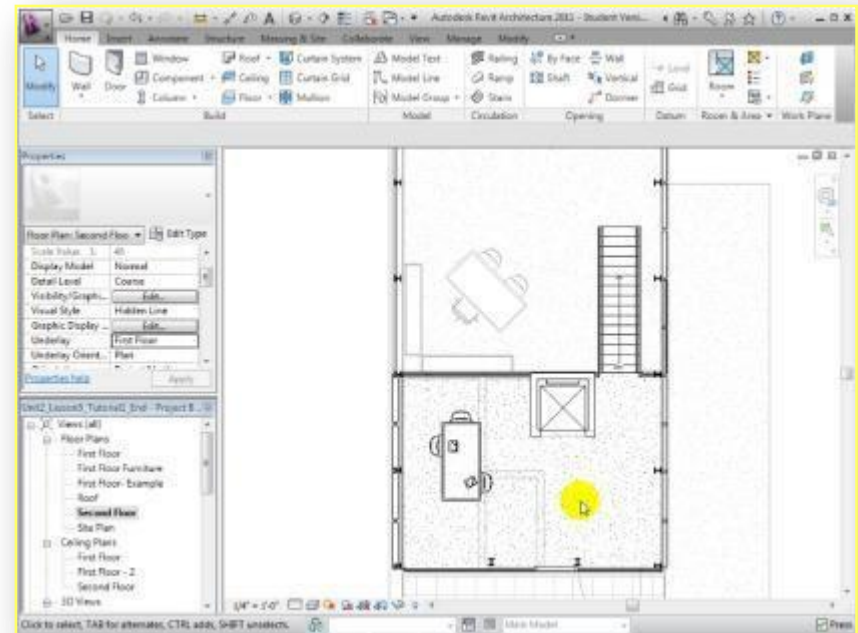


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Setting View Properties and Display Options

Selecting another level to underlay

- Select another level to underlay in view properties
- Underlay displayed as gray lines in view
- Use underlay to align elements between levels



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