

CLASS PRE-REQUISITE

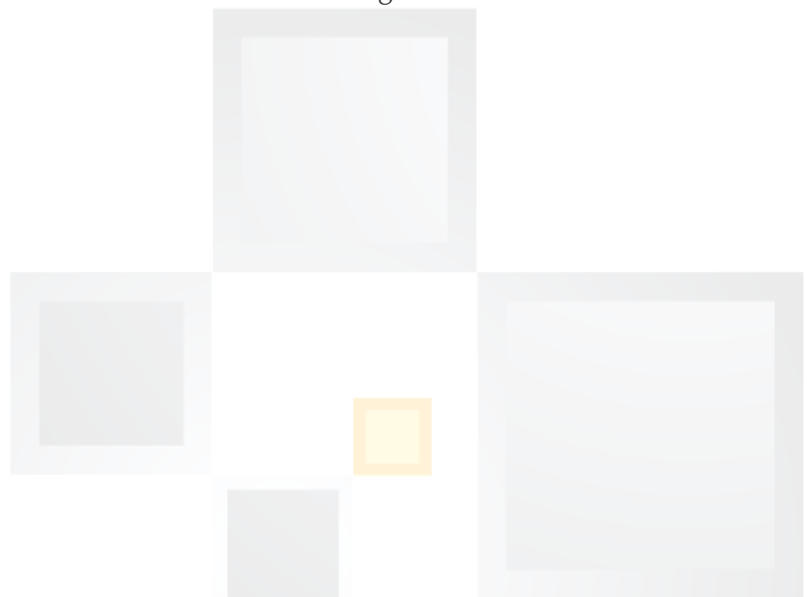
We expect all students to be comfortable with computer PC basics using Microsoft windows. The class assumes attendee will have familiarity with assembling architectural construction documents. Attendance in Intro to Revit Class or a minimum 6 months Revit experience.

DAY 1 – MODELING TOPICS

- Customizing walls
 - Wall structure review
 - Materials review
 - Surface & Section Pattern Creation
- Structural Components
 - Steel Structure – Columns, Beams, Beam Systems
 - Foundation Walls and Footings
 - Brick shelf & other reveals - profiles
- Curtain Walls
 - As Window Systems
 - Custom Panel In-Place Editing
- Customizing Stairs and Railings
 - Custom profiles
- Roofs
 - Pitching “flat” roofs
 - Modify Sub Elements & Split lines
 - Sloped steel vs. variable thickness
 - Dormers
 - Dormer Openings
 - Roof by Extrusion
 - Named reference planes for work plane

DAY 2 – MODELING & ORGANIZATION

- Site Modeling Tools
 - Topography
 - Split surfaces
 - Linked civil CAD Files
- Creating 2D Details in Revit
 - Detail Callouts
 - Drafting Views
 - Model Based Details
- Groups
 - Model vs. Detail
 - Groups vs. Links (Housing Units)
- Design Options
 - Protected Content
 - Primary & VG Overrides
 - Presentation Views
- Renovation Projects \ Phasing
 - Phase Timeline
 - Phase Graphic overrides
- Project Origin points
 - Shared Coordinate Systems
- Linking Revit Models and CAD files
- Working with Consultants (views Settings)
 - Copy\Monitor Overview
- Massing



DAY 3 – COMPREHENSIVE FAMILIES

- Laying the Foundation
 - Classes of Families
 - System, Loadable, In-Place
 - Hosting Vs. Non-Hosted Vs. Face Based
 - Family Categories and Family Templates
 - Type vs. Instance Parameters
 - Family Editor Overview
 - Importance of Reference Planes
 - Constraints
 - Project Parameters, Shared Parameters
- Creating Geometry
 - Solid Forms
 - Void Forms
 - Model and Symbol Lines
 - Filled and Masking Regions
- Adding Intelligence
 - Family Parameters
 - Shared Parameters
 - Labels
 - Formulas
 - Visibility
- Exercises
 - Detail Component Family
 - Titleblock Family
 - Annotation\Tag Family
 - Furniture or Casework Family (non-hosted)
 - Wall Trim or Recess (hosted)
 - In place “cloud ceiling” or sloped auditorium floor.
- Advanced Family Techniques
 - Nested Families
 - Arrayed Elements
 - Rotating Parameters for Nested Families
 - Void Cutting Elements

