

Autodesk® Revit Architecture - Fundamentals Syllabus

Course Description

This live, online class covers the basics of Autodesk Revit Architecture, from schematic design through construction documents. Students will be introduced to the concepts of Building Information Modeling and the tools for parametric design and documentation

Course Objectives:

- Become familiar with the concepts and benefits of Building Information Modeling.
 - Understand the fundamental concepts and features of Autodesk Revit Architecture.
 - Use the Parametric 3D design tools to start designing projects.
 - Use the automated tools for project documentation.
 - Develop an initial level of comfort and confidence with Autodesk Revit Architecture through hands-on experience.
 - Know how to use Revit Architecture in a typical workflow.
-

Courseware

Ascent Official Training Courseware
-Revit Architecture Essentials

Number of Days

5 Half Day Sessions

Who Should Attend

Architects, Engineers and Master Planners

Continuing Education Hours

18 Hours

Prerequisites

Basic Computer knowledge and experience

System and Software Requirements

<https://asti.com/LiveLab-Learning-amp-Training/LiveLab-System-Requirements>

FAQs and Cancellation Policy

<https://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-FAQs>

AUTODESK

Class Outline and Topics:

Introduction to Building Information Modeling (BIM) and Revit User Interface & Project Setup

Recent Files Screen
Creating a new Project
User Interface

Project Browser / Project Organization

Floor Plans, Ceiling Plans, Elevations, Sections, Details, 3D Views
View Organization
Legends, Schedules
Sheets, Families, Groups, Revit Links
View Navigation

Elements

Datum / Host Elements / Hosted Components / Views / Annotations
Levels / Grids / Reference Planes

Basic Architectural Modeling

Add Walls, doors, Windows, Floors, Roofs
Properties Palette / Options Bar
Draw Options
Element Selection / Selection Filters
Modify Elements: Edit Tools / Modify Tools / Geometry Tools
Load Content / Family Libraries
Parametric Constraints (Level, Align, EQ, Dimensional Lock)

View Creation and Properties

Creating Plans, Elevations, Sections
Callouts, Details, Drafting

Views

Duplicate Views
View Properties / View Control Bar / Visibility Graphics
3D Orthographic Views / Perspective Views
Right Click Menu Options

Basic Structural Modeling

Grids
Columns
Floor Slabs / Slab Edges
Foundations

Develop a Project

Interior Layout
Rooms, Room Schedule, Door Schedule
Furniture, Fixtures, Equipment
Custom Wall types, Curtain Walls, Stacked Walls

More Views

Color Fill Plans / Shadows
Perspective Camera View
3D View Oriented to Other View

Ceilings

Ceiling View Properties
Automatic / Sketch Based Ceilings
Continuous Ceilings / Cloud Ceilings / Soffits
Light Fixtures / Ceiling Elements

Detailing

Annotating Detail Views
Importing CAD Details
Detail Lines / Detail Components
Edit Cut Profile
Lock 3D View
Detail Groups & Group Editor

Vertical Circulation & Penetrations

Stairs, Ramps, Elevators
Railings / Railing Extensions
Multi-Level vs. Single Story
Sketch Stairs / Component Stairs
Shaft Opening

Annotation and Sheet Composition

Model Views, Schedules, Legends, Drafting Views
Tags, Keynotes, Dimensions, Symbols, Detail Components
Creating Sheets, Adding Views, Activating/Deactivating Views
Issues and Revisions

Output

Printing / PDF / Settings
Export to DWFx / DWG / DGN / Settings
Export to IFC, gbXML
Export Images