

Autodesk®

# Revit® 2026 Architecture Fundamentals



Better Textbooks. Lower Prices.  
[www.SDCpublications.com](http://www.SDCpublications.com)

Visit the following websites to learn more about this book:



# Contents

Preface .....	xi
In This Guide .....	xiii
Practice Files .....	xv

---

## Introduction to Autodesk Revit and Project Setup

---

<b>Chapter 1: Introduction to Revit</b>	<b>1-1</b>
1.1 <b>BIM and Revit</b> .....	1-2
BIM Workflow .....	1-3
Revit Terms.....	1-4
Revit and Construction Documents .....	1-5
1.2 <b>Overview of the Interface</b> .....	1-6
1.3 <b>Opening and Saving Projects</b> .....	1-28
Opening Projects .....	1-29
Saving Projects.....	1-30
1.4 <b>Viewing Commands</b> .....	1-32
Zooming and Panning.....	1-32
Viewing in 3D .....	1-33
ViewCube .....	1-38
Visual Styles .....	1-40
Select and Identify Elements in a Project .....	1-42
Practice 1a: Open and Review a Project .....	1-43
Chapter Review Questions .....	1-51
Command Summary .....	1-53
<b>Chapter 2: Starting a Revit Project</b>	<b>2-1</b>
2.1 <b>Selecting a Project Template</b> .....	2-2
Recommended Project Setup.....	2-3
2.2 <b>Linking and Importing CAD Files</b> .....	2-5
2.3 <b>Modifying Imported/Linked CAD Files</b> .....	2-10
2.4 <b>Linking in Revit Models</b> .....	2-15
2.5 <b>Modifying Linked Revit Models</b> .....	2-17

2.6	<b>Temporary Hide/Isolate .....</b>	2-19
2.7	<b>Managing Links .....</b>	2-20
	<b>Practice 2a: Start a Project and Link Files .....</b>	2-25
2.8	<b>Setting Up Levels .....</b>	2-30
	Modifying Levels .....	2-32
	Creating Plan Views .....	2-35
	<b>Practice 2b: Set Up Levels.....</b>	2-38
2.9	<b>Creating Grids.....</b>	2-45
	Modifying Grid Lines .....	2-48
	<b>Practice 2c: Add Grids.....</b>	2-50
	<b>Chapter Review Questions .....</b>	2-54
	<b>Command Summary.....</b>	2-56
	<b>Chapter 3: Working with Views</b>	<b>3-1</b>
3.1	<b>Understanding the Project Browser.....</b>	3-2
3.2	<b>Duplicating Views .....</b>	3-6
3.3	<b>Modifying How the View Displays .....</b>	3-10
	View Control Bar.....	3-10
	View Properties .....	3-11
	Visibility/Graphic Overrides – Elements .....	3-14
	Hiding and Overriding Graphics.....	3-15
	Reveal Hidden Elements .....	3-18
	Working with Crop Regions .....	3-19
	Plan Regions .....	3-20
	View Templates.....	3-22
	<b>Practice 3a: Duplicate Views and Set the View Display .....</b>	3-25
3.4	<b>Adding Callout Views .....</b>	3-28
	<b>Practice 3b: Add Callout Views .....</b>	3-32
3.5	<b>Creating Elevations and Sections .....</b>	3-37
	Elevations.....	3-38
	Sections .....	3-40
	Modifying Elevations and Sections .....	3-42
	3D Section Views.....	3-45
	<b>Practice 3c: Create Elevations and Sections .....</b>	3-49
	<b>Chapter Review Questions .....</b>	3-57
	<b>Command Summary.....</b>	3-59

<b>Chapter 4: Revit Families</b>	<b>4-1</b>
<b>4.1 About Revit Families .....</b>	<b>4-2</b>
Working with Component Families .....	4-6
<b>4.2 Loading Components .....</b>	<b>4-7</b>
Placing Components .....	4-10
Using Snaps .....	4-11
Snap Overrides .....	4-12
Snaps Settings.....	4-13
<b>4.3 Modifying Components.....</b>	<b>4-14</b>
<b>4.4 Creating Additional Family Types in a Project .....</b>	<b>4-17</b>
Families with Connectors .....	4-19
<b>Practice 4a: Load Components.....</b>	<b>4-21</b>
<b>Chapter Review Questions .....</b>	<b>4-28</b>
<b>Command Summary.....</b>	<b>4-30</b>
<b>Chapter 5: Basic Sketching and Modify Tools</b>	<b>5-1</b>
<b>5.1 Adding General Building Elements .....</b>	<b>5-2</b>
Draw Tools .....	5-4
Drawing Aids.....	5-6
Reference Planes .....	5-8
Editing Building Elements .....	5-10
Selecting Multiple Elements .....	5-12
Measuring Tool.....	5-14
Filtering Selection of Multiple Elements .....	5-15
<b>Practice 5a: Sketch and Edit Elements .....</b>	<b>5-17</b>
<b>5.2 Working with Basic Modify Tools .....</b>	<b>5-22</b>
Moving and Copying Elements.....	5-22
Rotating Elements .....	5-24
Mirroring Elements .....	5-26
Creating Linear and Radial Arrays.....	5-27
Aligning Elements.....	5-30
<b>Practice 5b: Work with Basic Modify Tools.....</b>	<b>5-32</b>
<b>5.3 Working with Additional Modify Tools .....</b>	<b>5-42</b>
Splitting Linear Elements .....	5-42
Trimming and Extending.....	5-43
Offsetting Elements .....	5-45
<b>Practice 5c: Work with Additional Modify Tools.....</b>	<b>5-47</b>
<b>Chapter Review Questions .....</b>	<b>5-51</b>
<b>Command Summary.....</b>	<b>5-54</b>

## Design Development

---

<b>Chapter 6: Adding Columns</b>	<b>6-1</b>
<b>6.1 Adding Columns .....</b>	<b>6-2</b>
Modifying Columns .....	6-5
<b>6.2 Adding Isolated Footings .....</b>	<b>6-7</b>
<b>Practice 6a: Add Columns .....</b>	<b>6-9</b>
<b>Chapter Review Questions .....</b>	<b>6-15</b>
<b>Command Summary.....</b>	<b>6-16</b>
<b>Chapter 7: Modeling Walls</b>	<b>7-1</b>
<b>7.1 Modeling Walls .....</b>	<b>7-2</b>
<b>7.2 Modifying Walls .....</b>	<b>7-13</b>
Wall Joins .....	7-16
Editing Wall Joins.....	7-17
Editing Wall Profiles .....	7-19
Editing Wall Layer Elevations.....	7-20
Wall Openings.....	7-24
<b>7.3 Adding Wall Footings .....</b>	<b>7-26</b>
<b>Practice 7a: Model the Exterior Shell.....</b>	<b>7-30</b>
<b>Practice 7b: Add Interior Walls .....</b>	<b>7-35</b>
<b>Practice 7c: Model Additional Walls .....</b>	<b>7-50</b>
<b>7.4 Adding Room Elements.....</b>	<b>7-57</b>
Modifying Rooms .....	7-58
Adding Room Separation Lines .....	7-61
<b>Practice 7d: Add Room Elements .....</b>	<b>7-63</b>
<b>Chapter Review Questions .....</b>	<b>7-71</b>
<b>Command Summary.....</b>	<b>7-74</b>
<b>Chapter 8: Working with Doors and Windows</b>	<b>8-1</b>
<b>8.1 About Doors and Windows .....</b>	<b>8-2</b>
<b>8.2 Creating Additional Door and Window Sizes .....</b>	<b>8-7</b>
<b>Practice 8a: Add Doors and Windows .....</b>	<b>8-8</b>
<b>Chapter Review Questions .....</b>	<b>8-18</b>
<b>Command Summary.....</b>	<b>8-20</b>

---

<b>Chapter 9: Working with Curtain Walls</b>	<b>9-1</b>
9.1    Creating Curtain Walls .....	9-2
9.2    Adding Curtain Wall Grids .....	9-6
Modifying Curtain Wall Grids .....	9-7
<b>Practice 9a: Work with Curtain Walls .....</b>	<b>9-10</b>
9.3    Working with Curtain Wall Panels.....	9-16
Creating a Curtain Wall Panel.....	9-18
9.4    Attaching Mullions to Curtain Wall Grids .....	9-20
Modifying Mullions.....	9-21
<b>Practice 9b: Add Mullions and Panels to Curtain Walls .....</b>	<b>9-22</b>
<b>Chapter Review Questions .....</b>	<b>9-30</b>
<b>Command Summary.....</b>	<b>9-32</b>
<b>Chapter 10: Modeling Floors</b>	<b>10-1</b>
10.1    Modeling Floors.....	10-2
Modifying Floors.....	10-6
Joining Geometry .....	10-8
<b>Practice 10a: Model Floors.....</b>	<b>10-9</b>
10.2    Creating Shaft Openings .....	10-16
10.3    Creating Sloped Floors.....	10-17
Creating Multiple Slopes for Drainage .....	10-18
<b>Practice 10b: Create Shaft Openings and Sloped Floors .....</b>	<b>10-22</b>
10.4    Creating Floor Types.....	10-27
<b>Chapter Review Questions .....</b>	<b>10-32</b>
<b>Command Summary.....</b>	<b>10-34</b>
<b>Chapter 11: Modeling Ceilings</b>	<b>11-1</b>
11.1    Modeling Ceilings .....	11-2
Sketching Ceilings .....	11-3
Modifying Ceiling Grids .....	11-4
11.2    Adding Ceiling Fixtures .....	11-6
<b>Practice 11a: Model Ceilings and Add Ceiling Fixtures .....</b>	<b>11-8</b>
11.3    Creating Ceiling Soffits and Raised Ceilings.....	11-14
<b>Practice 11b: Create Ceiling Soffits.....</b>	<b>11-16</b>
<b>Chapter Review Questions .....</b>	<b>11-20</b>
<b>Command Summary.....</b>	<b>11-22</b>

<b>Chapter 12: Modeling Roofs</b>	<b>12-1</b>
<b>12.1 Modeling Roofs .....</b>	<b>12-2</b>
Roof Types .....	12-3
<b>12.2 Creating Roofs by Footprint .....</b>	<b>12-6</b>
Attaching Walls to Roofs .....	12-8
Modifying the Footprint of a Roof .....	12-9
<b>Practice 12a: Create Roofs by Footprint .....</b>	<b>12-11</b>
<b>12.3 Creating Roofs by Extrusion .....</b>	<b>12-18</b>
Modifying Extruded Roofs .....	12-22
Joining Roofs.....	12-24
<b>Practice 12b: Create Roofs by Extrusion.....</b>	<b>12-25</b>
<b>Chapter Review Questions .....</b>	<b>12-28</b>
<b>Command Summary.....</b>	<b>12-29</b>
<b>Chapter 13: Modeling Stairs, Railings, and Ramps</b>	<b>13-1</b>
<b>13.1 Creating Component Stairs .....</b>	<b>13-2</b>
Creating Runs .....	13-3
Creating Other Types of Runs.....	13-7
Creating Landings .....	13-10
Adding Supports.....	13-11
<b>Practice 13a: Create Component Stairs .....</b>	<b>13-12</b>
<b>13.2 Modifying Component Stairs.....</b>	<b>13-21</b>
Multistory Stairs .....	13-24
<b>Practice 13b: Modify Component Stairs .....</b>	<b>13-26</b>
<b>13.3 Working with Railings .....</b>	<b>13-34</b>
Modifying Railings.....	13-36
<b>Practice 13c: Work with Railings .....</b>	<b>13-38</b>
<b>13.4 Creating Ramps .....</b>	<b>13-46</b>
<b>Practice 13d: Create Ramps.....</b>	<b>13-48</b>
<b>Chapter Review Questions .....</b>	<b>13-51</b>
<b>Command Summary.....</b>	<b>13-53</b>

---

## Construction Documentation

---

<b>Chapter 14: Creating Construction Documents</b>	<b>14-1</b>
<b>14.1 Setting Up Sheets .....</b>	<b>14-2</b>
Sheet (Title Block) Properties.....	14-4
<b>14.2 Placing and Modifying Views on Sheets .....</b>	<b>14-5</b>
Opening Sheets .....	14-8
<b>14.3 Modifying Views on a Sheet.....</b>	<b>14-9</b>
Removing Views from Sheets .....	14-12
Duplicating Sheets .....	14-13
Sheet Collections.....	14-14
Modifying Views and View Titles .....	14-15
<b>Practice 14a: Set Up Sheets .....</b>	<b>14-19</b>
<b>14.4 Printing Sheets .....</b>	<b>14-26</b>
Printing Options.....	14-26
Exporting Views and Sheets to PDF.....	14-31
<b>Chapter Review Questions .....</b>	<b>14-32</b>
<b>Command Summary.....</b>	<b>14-34</b>
<b>Chapter 15: Working with Annotations</b>	<b>15-1</b>
<b>15.1 Working with Dimensions.....</b>	<b>15-2</b>
Modifying Dimensions .....	15-5
Setting Constraints.....	15-9
<b>Practice 15a: Work with Dimensions .....</b>	<b>15-14</b>
<b>15.2 Working with Text.....</b>	<b>15-21</b>
Modifying Text.....	15-24
Spell Checking .....	15-29
Creating Text Types .....	15-30
<b>Practice 15b: Work with Text .....</b>	<b>15-32</b>
<b>15.3 Adding Detail Lines and Symbols .....</b>	<b>15-38</b>
Using Symbols .....	15-39
<b>Practice 15c: Add Detail Lines and Symbols .....</b>	<b>15-40</b>
<b>15.4 Creating Legends.....</b>	<b>15-45</b>
<b>Practice 15d: Create Legends .....</b>	<b>15-47</b>
<b>Chapter Review Questions .....</b>	<b>15-50</b>
<b>Command Summary.....</b>	<b>15-52</b>

<b>Chapter 16: Adding Tags and Schedules</b>	<b>16-1</b>
<b>16.1 Adding Tags .....</b>	<b>16-2</b>
Tagging in 3D Views.....	16-11
<b>Practice 16a: Add Tags .....</b>	<b>16-13</b>
<b>16.2 Working with Schedules.....</b>	<b>16-18</b>
Building Component Schedules .....	16-18
Schedule View Properties .....	16-27
Filtering Elements from Schedules .....	16-29
Modifying Schedules.....	16-30
Modifying a Schedule on a Sheet.....	16-32
Splitting a Schedule Across Multiple Sheets.....	16-33
Filtering by Sheet.....	16-34
<b>Practice 16b: Work with Schedules .....</b>	<b>16-36</b>
<b>Chapter Review Questions .....</b>	<b>16-43</b>
<b>Command Summary.....</b>	<b>16-44</b>
<b>Chapter 17: Creating Details</b>	<b>17-1</b>
<b>17.1 Setting Up Detail Views.....</b>	<b>17-2</b>
Referencing a Drafting View .....	17-5
Saving Drafting Views .....	17-6
<b>17.2 Adding Detail Components.....</b>	<b>17-8</b>
Detail Components.....	17-8
Repeating Details .....	17-10
<b>17.3 Annotating Details .....</b>	<b>17-12</b>
Multiple Alignment .....	17-12
Filled Regions .....	17-14
Adding Detail Tags .....	17-17
Linework.....	17-18
<b>Practice 17a: Create a Detail Based on a Section Callout.....</b>	<b>17-19</b>
<b>Practice 17b: Create a Detail in a Drafting View.....</b>	<b>17-28</b>
<b>Chapter Review Questions .....</b>	<b>17-33</b>
<b>Command Summary.....</b>	<b>17-34</b>
<b>Appendix A: Additional Tools for Design Development</b>	<b>A-1</b>
<b>A.1 Displaying Views in the Project Browser .....</b>	<b>A-2</b>
<b>A.2 Selection Sets.....</b>	<b>A-4</b>
<b>A.3 Purging Unused Elements .....</b>	<b>A-7</b>
<b>A.4 Wall Sweeps and Reveals.....</b>	<b>A-8</b>
<b>A.5 Creating Curtain Wall Types with Automatic Grids .....</b>	<b>A-11</b>

---

<b>A.6</b>	<b>Creating Fascias, Soffits, and Gutters .....</b>	<b>A-14</b>
	Fascias .....	A-14
	Soffits .....	A-15
	Gutters .....	<b>A-16</b>
<b>A.7</b>	<b>Creating Dormers.....</b>	<b>A-17</b>
<b>A.8</b>	<b>Enhancing Views.....</b>	<b>A-19</b>
	Splitting Faces .....	A-20
	Applying Materials.....	A-21
	Editing Plan and Section Profiles .....	A-24
<b>A.9</b>	<b>Introduction to Revit Worksharing.....</b>	<b>A-25</b>
	Worksharing Definitions.....	A-26
	Saving a Workshared Project .....	A-28
	<b>Command Summary.....</b>	<b>A-31</b>
<b>Appendix B: Additional Tools for Construction Documents</b>		<b>B-1</b>
<b>B.1</b>	<b>Working with Guide Grids on Sheets .....</b>	<b>B-2</b>
<b>B.2</b>	<b>Revision Tracking .....</b>	<b>B-4</b>
	Issuing Revisions.....	B-8
<b>B.3</b>	<b>Path of Travel and Route Analysis.....</b>	<b>B-9</b>
<b>B.4</b>	<b>Annotating Dependent Views .....</b>	<b>B-12</b>
	Annotating Views .....	B-13
<b>B.5</b>	<b>Material Takeoff Schedules .....</b>	<b>B-15</b>
<b>B.6</b>	<b>Importing and Exporting Schedules.....</b>	<b>B-16</b>
<b>B.7</b>	<b>Creating a Repeating Detail.....</b>	<b>B-18</b>
<b>B.8</b>	<b>Keynoting and Keynote Legends .....</b>	<b>B-20</b>
	Keynote Legends .....	B-22
	<b>Command Summary.....</b>	<b>B-24</b>
<b>Index.....</b>		<b>Index-1</b>