

Contents			
SketchUp to LayOut	III		
Introduction	1		
What Will You Learn?	1		
Sample Projects	2		
SketchUp Make vs SketchUp Pro	3		
What is LayOut?	4		
LayOut 2015	4		
Style Builder	5		
How To Use This Book	6		
Preparing Your Model For LayOut	6		
LayOut Documents	6		
Advanced Techniques	7		
Table Project	7		
Kitchen Project	7		
House Project	8		
Project Files	8		
Preparing Your Model for LayOut	11		
Planning	11		
Level of Detail	11		
Types of Models	14		
Multi-Purpose Models	17		
Chapter Summary	17		
Organization	18		
Groups & Components	19		
SketchUp Layers	21		
Types of Layers	24		
Objects on Multiple Layers	25		
		Chapter Summary	28
		Workflow Overview	29
		SketchUp	29
		LayOut	29
		Objects to Draw in LayOut	30
		Chapter Summary	31
		Creating Scenes	32
		Creating a New Scene	32
		Updating a Scene	33
		Navigating Scenes	35
		Chapter Summary	35
		Advanced Scenes for LayOut	36
		Visible Objects	38
		Foreground Depth	39
		Background Depth	46
		Camera Perspective & Settings	50
		Styles	53
		Chapter Summary	55
		Scene Anatomy	56
		Visualizing Scene Properties	56
		Scene Properties	58
		Selective Memory	60
		Chapter Summary	61
		SketchUp Styles	62
		Edge Settings	63
		Face Settings	64
		Background Settings	65
		Watermark Settings	65
		Modeling Settings	66
		Mix	67
		Save Custom Styles in Model	67
		Save Custom Styles on Computer	68
		Chapter Summary	70

VIII *SketchUp to LayOut*

BIM modeling	71	Scaling Orthogonal Viewports	119
Dynamic Component Attributes	72	Raster, Vector, & Hybrid	120
Classifications	75	Controlling Line Weight	121
IFC Import/Export	78	Updating SketchUp Models	123
Chapter Summary	80	Clipping Masks	125
		Chapter Summary	128
LayOut Documents	83	Adding Dimensions	129
User Interface	83	Creating a Dimension Line	129
The Toolbar	83	Editing Dimensions	131
Tray Panels	85	Dimension Scale	132
Document Area	89	Unit of Measurement & Precision	133
Chapter Summary	90	Dimension Text Placement	136
		Exploding Dimensions	137
LayOut Elements	91	Dimension Shape & Text Style	137
Moving Elements	91	Chapter Summary	138
Rotating Elements	92	Advanced Dimensions	139
Scaling Elements	93	Non-Parallel Dimensions	139
LayOut Inference System	96	Adjusting Dimension Leaders	139
Editing Elements	97	Quick Dimension Offsets	140
Chapter Summary	100	Angular Dimensions	141
		Perspective Viewports	142
Opening a New File	101	Chapter Summary	143
Create a New File From a Template	101	Annotations	144
Pages	102	Text Box	144
Layers	103	Auto-Text	146
Editing the Titleblock Elements	108	Text with Leader	151
Chapter Summary	111	Smart Labels	153
		Chapter Summary	155
Insert SketchUp Models	112	Patterns/Hatching	156
Setting the Scene	112	Exploding Viewports	157
Positioning the Viewport	113	Chapter Summary	157
Sizing the Viewport	114	Scrapbooks	158
Paper Space vs. Model Space	116	Scrapbook Elements	158
Ortho and Perspective Viewports	118		
Scaling Perspective Viewports	119		

Scrapbook Sampling	160	Start Modeling	202
Custom Scrapbooks	161	Table Top	202
Chapter Summary	162	Table Leg	203
Printing/Presentation	163	Copy Legs	204
Printing	163	Aprons	205
Exporting PDF	164	Details	207
Creating a Presentation	164	Materials	208
Chapter Summary	165	Orienting Materials	210
 		Creating Scenes	212
<i>Advanced Techniques</i>	167	Styles	212
Hatching Techniques	167	Utility Scenes	213
Solid Black Poché	167	Perspective Scene	214
Parallel Perspective Hatching	169	Perspective No-Top Scene	215
Scaling Hatch Patterns	172	Side, Front, Top Scenes	216
Textured Poché Fills	174	Top Frame Scene	217
SectionCutFace Plugin	179	Export to LayOut	218
Auto-Scaling Hatching	180	Document Template	218
Chapter Summary	183	Cover Page	219
Stacking Viewports	184	Elevations Page	220
Peel Away View	189	Details Page	221
Pasting Linework into LayOut	191	 	
Transparency Between Viewports	193	<i>Kitchen Project</i>	223
Pattern Masks	194	Project Overview	223
Chapter Summary	196	Model Setup	224
 		Project Goals	224
<i>Table Project</i>	199	Phase/Location Layer Groups	225
Project Overview	199	Object Layer Groups	226
Model Setup	200	Special Layers	228
Project Goals	200	Start Modeling	229
Layers	200	Perimeter Walls	229
		Cabinets	230
		Model Organization	232

X *SketchUp to LayOut*

Countertops	235	Adding Details	280
Adding Details	237	Creating Scenes	282
Creating Scenes	238	Styles	282
Styles	238	Creating Plan Views	282
Utility Scene	239	Creating Elevations	289
Perspective Scene	240	Exporting to LayOut	291
Plan View Scenes	240	Basement Plan	292
Export to LayOut	248	First Floor Plan	293
Dimensions	248	Second Floor Plan	294
Cover Page	249	Attic Floor Plan	295
Plan View	250	Typical Elevations	296
Sink Elevation	251	Floor Height Notation	297
Oven Elevation	252	Conclusion	298
Island Elevations	253	Video Course	298

House Project **255**

Project Overview	255
Project Goals	256
Phase/Location Layer Groups	257
Object Layer Groups	259
Special Layers	260
Start Modeling	262
Foundation	262
First Floor	263
Exterior Walls	266
Initial Model Organization	268
Create Utility Scenes	270
Interior Walls	271
Doors/Windows	273
Organizing Doors/Windows	275
Roof	276
Materials	277

Index **301**