

SketchUp Essentials Course Outline

Int	roductions and Setup	3D	Geometry Construction Tools
	About the instructor/ Introductions		Create 3-dimensional geometry
	What we're going to do: Syllabus		Create surfaces from lines in 3D
	Review		Demonstrate stickiness of geometry in
	Sample project images		3D
	About SketchUp: History, Capabilities and Uses		Create geometry with the Push/Pull Tool
П	The Difference between 3D and BIM		Push/Pull with Modifier Keys
	(Building Information Modeling)		Lock inferences
	Interior Space vs. Exterior Space	_	Look innorances
_	menor opace to: 2xenor opace	М	odification Tools
Pr	ogram Setup		Move, Copy
	Opening SketchUp: The Initial Setup "out of the box"		Using Move to Resize Curves and Curved Surfaces
	Using Single and Multiple Screens		Rotate, Copy
	Preparing the interface		 Defining the Rotation Axis
	■ Toolbars and Menus		 Using Rotate to Twist
	Saving your setup		Scaling and Resizing
	Saving space for laptop use		Offsetting Lines and faces
	Program Settings		Follow Me
	Model Info and Preferences		Follow Me with Components
	Menu Options, Icon review		Round Objects
	3D Space: Axes, Views		Auto fold
	Orbiting, Zooming and Panning		Displaying and Smoothing Edges
Basic Geometry/ Drawing Tools			aking Multiple Copies
	Create Lines		Internal Arrays
	Create Rectangles, Squares		Non-Orthogonal Copies
	Create Polygons/Circles		Multiple Rotated Copies
	Create surfaces from lines, Circles and		
	polygons		
	Triangulation		
	How SketchUp handles Curves		
	Freehand tool		
	Single and Multiple Selections		



Groups and Components			□ Double-Sided Faces of Groups		
	The differences between Groups and		Materials of Components		
	Components		Wrapping Images		
	The importance of structuring your				
	models with Groups and Components	Ad	lding Text and Dimensions		
	Demonstration of Component		Text		
	inferencing behavior and		Measuring Length and Area		
	characteristics		Dimensions		
П	Creating and Saving Your Own		Creating Dimensions		
_	Components		 Dimension Display and Properties 		
	How to edit a Component		 Dimensioning Using the Text Tool 		
Ш	Removing Objects from a Group or		3D Text		
П	Components Seeling Components	N.//:	scellaneous Basic Exercises		
	Scaling Components • Aligning Components		Healing a Divided Line		
	Resizing Components		Smoothing Faces of Rotate-Copied		
	Healing the edge of adjacent	ш	Curved Objects		
_	components		Survey Objects		
	Work with the Components Browser	Se	ectioning		
	■ Finding Components in the 3D		Sectioning Overview		
	Warehouse		Using Sections for Interior Design		
	Opening the 3D Warehouse in Your		Using Section Planes to Create Floor		
	Internet Browser		Plans		
	Inserting and Editing Components				
_		-	yles		
	ersecting		Pre-Defined Styles		
	Cutting	Ш	Editing Styles		
	Arch Cutouts Using Groups		Model Display		
Ш	Intersect with Context and Selected		Styles: Edge Settings		
Deinting Materials and Tartures			Styles: Face Settings Styles: Rackground Settings		
	inting, Materials, and Textures Applying Materials		Styles: Background SettingsStyles: Watermarks Settings		
Η	Editing Materials		Styles: Watermarks SettingsStyles: Modeling Settings		
	Using Images as Textures		Saving Your Style as a Template		
	Material Collections		Mixing Styles		
	Material Translucency		Watermarks and Backgrounds		
	Double-Sided Faces		Sketchy Edges and the SketchUp		
	Materials of Groups and Components	_	"look"		
	Overview of Materials of Groups				



Imaging and Presentation

☐ Lighting and Shadows

☐ Creating a solar study

☐ Exporting to JPG and other formats

□ Fog

Using Scenes/Creating Camera views		Exporting your model Examples of different presentation		
Using Layers	_	techniques		
Using Layers to Hide Objects				
Using Layers for Labeled	A Tas	A Taste of Animations		
Presentations and to Simulate		Short Sample Video		
Animation		Animation set up		
Using Layers to Explore Design		Creating Walk-Through Scenes		
Options		Adding and Updating Scenes		
Using Layers of Groups and		Using Sections and Styles in an		
Components		Animation		
Interior Manipulations, i.e. Field of		Creating and saving an animation		
View		-		

Finishing Up

☐ Resources
☐ Q&A