

CONTENTS

CHAPTER 0

OVERVIEW OF TEACHING VECTORWORKS	9
INTRODUCTION	9
COURSE APPROACH	10
Presentation Topic	10
Hands On – Tips And Hints	11
Chapter Completion	11
Chapter Review Demonstration	12
Assignments	12
Quizzes And Extra Credit	13
COURSE DURATION	13
Intro To Computer Aided Design	13
Intro To CAD For The Built Environment	14
Learning To Draw In VectorWorks	14
Learning How To Use VectorWorks	14
Intro And Intermediate Classes	14
IN GENERAL	15

CHAPTER 1

WHAT THIS IS ALL ABOUT	17
CHAPTER OVERVIEW	17
Getting Started	17
PRESENTATION TOPIC	17
Click Drag Drawing	18
SmartCursor Cues	18
Opaque SmartCursor	18
Use Floating Datum	19
Eight Selection Handles	19
Offset Duplications	19
Snap To Loci	19
Full Screen Cursor	20
Constrain Angle	20
Snap Radius	20
2D Conversion Resolution	20

Rulers	21
Scroll Bars	21
Black Background	21
Zoom Line Thickness	21
Adjust Flipped Text	21
No Fill Behind Text	21
Show Other Objects While In Groups	22
Display Light Objects	22
Edit Font Mappings	22
Session	22
3D	23
TIPS AND HINTS	23
REVIEW DEMONSTRATION	24
Conventions Used In This Tutorial	24
The Environment	24
Enough For Now	25
CHAPTER 1 - ASSIGNMENT #1	26
CHAPTER 1 - ASSIGNMENT #2	27
Chapter 1 - Assignment #2 Answers	28
CHAPTER 2	
LET'S LEARN HOW TO DRAW	29
CHAPTER OVERVIEW	29
PRESENTATION TOPIC	29
Line Weights	29
Line Styles	30
Patterns	30
Color	30
TIPS & HINTS	31
CHAPTER COMPLETION	32
REVIEW DEMONSTRATION	33
Let's Draw	33
Looking At Objects	34
CHAPTER 2 - ASSIGNMENT 1	35
CHAPTER 2 - ASSIGNMENT 2	36

CHAPTER 3

TEMPLATE – WHAT'S THAT?	37
CHAPTER OVERVIEW	37
PRESENTATION TOPIC	37
Template Files	37
Grouped Objects	37
TIPS & HINTS	38
CHAPTER COMPLETION	39
REVIEW DEMONSTRATION	40
Creating A Standardized File	40
CHAPTER 3 - ASSIGNMENT 1	43
CHAPTER 3 - ASSIGNMENT 2	44

CHAPTER 4

CREATING OBJECTS	45
CHAPTER OVERVIEW	45
PRESENTATION TOPIC	45
Polygons Versus Other Objects	45
TIPS & HINTS	46
CHAPTER COMPLETION	47
REVIEW DEMONSTRATION	48
First The Sheet	48
Architectural Designators in 2d	48
Furniture In 3d	49
CHAPTER 4 - ASSIGNMENT 1	52
CHAPTER 4 - ASSIGNMENT 2	53

CHAPTER 5

CREATING SYMBOLS	55
CHAPTER OVERVIEW	55
PRESENTATION TOPIC	55
Walls	55
Symbols In Walls	55
TIPS & HINTS	56
CHAPTER COMPLETION	57
REVIEW DEMONSTRATION	57

Creating Symbols	57
Creating Doors	58
Creating Windows	60
Symbols From Existing Objects	62
Placing Symbols	62
CHAPTER 5 - ASSIGNMENT 1	63
CHAPTER 5 - ASSIGNMENT 2	64

CHAPTER 6

WALLS, FLOORS, ROOFS, AND STAIRS	65
CHAPTER OVERVIEW	65
PRESENTATION TOPIC	65
Creating Layers	65
Viewing the 3d Layers	65
Sections	66
Stairs	66
TIPS & HINTS	66
CHAPTER COMPLETION	67
REVIEW DEMONSTRATION	68
Creating Architectural Elements	68
Walls	68
Floors	69
Roofs	70
CHAPTER 6 - ASSIGNMENT 1	71
CHAPTER 6 - ASSIGNMENT 2	72

CHAPTER 7

THE 3D DRAWING	73
CHAPTER OVERVIEW	73
PRESENTATION TOPIC	73
TIPS & HINTS	74
CHAPTER COMPLETION	75
REVIEW DEMONSTRATION	75
Aligning The Layers	75
Linked Layers	76
Sections	78
CHAPTER 7 - ASSIGNMENT 1	79
CHAPTER 7 - ASSIGNMENT 2	80

CHAPTER 8

WORKING WITH MULTIPLE VIEWS	81
CHAPTER OVERVIEW	81
PRESENTATION TOPIC	81
TIPS & HINTS	82
CHAPTER COMPLETION	83
REVIEW DEMONSTRATION	83
Setting Up The Multi-View Sheet	83
CHAPTER 8 - ASSIGNMENT 1	86
CHAPTER 8 - ASSIGNMENT 2	87

CHAPTER 9

MORE WALLS AND OTHER STUFF	89
CHAPTER OVERVIEW	89
PRESENTATION TOPIC	89
TIPS & HINTS	90
CHAPTER COMPLETION	91
REVIEW DEMONSTRATION	92
More Classes	92
More Roofs	93
More Symbols	93
Roof Stuff	94
Site Stuff	96
CHAPTER 9 - ASSIGNMENT 1	98
CHAPTER 9 - ASSIGNMENT 2	99

CHAPTER 10

USING VECTORWORKS	101
CHAPTER OVERVIEW	101
PRESENTATION TOPIC	101
TIPS & HINTS	102
CHAPTER COMPLETION	102
REVIEW DEMONSTRATION	103
CHAPTER 10 - ASSIGNMENT 1	104
CHAPTER 10 - ASSIGNMENT 2	105