



**Architectural Drafting
for Interior Designers
2nd Edition**

Lydia Sloan Cline

CHAPTER 1

Drafting and the Design Process **1**

What Is Drafting?	2
History of Drafting	3
Professional Groups and Certifications	4
The Design Process	5
<i>Summary</i>	14
<i>Classroom Activities</i>	15
<i>Questions</i>	15
<i>Further Resources</i>	15

CHAPTER 2

Tools, Scales, and Media **17**

Drafting Board and Accessories	18
Architect's Scale	21
Writing Proper Architectural Notation	25
Scale Conversions	25
Metric Scale	26
Proportional Scale	27
Pencils, Leads, and Erasers	28
Other Tools	30
Drafting Media	34
Care and Storage of Tools	35
The Copying Process	36
<i>Summary</i>	37
<i>Classroom Activities</i>	37
<i>Questions</i>	37
<i>Further Resources</i>	38

CHAPTER 3

2D Versus 3D **39**

What Is 2D Drawing, and Why Do It?	40
Orthographic Theory	40
Sketching Orthographically	42
What Is 3D Drawing?	49
Sketching Tips	56
<i>Summary</i>	59
<i>Classroom Activities</i>	59
<i>Questions</i>	59
<i>Further Resources</i>	59

CHAPTER 4

Drafting Conventions 61

The Line: Weight and Type	62
Line Type	63
Identifier Labels and Symbols	65
Hatch Lines and Poché Symbols	66
Sheet and Drawing Organization	69
Lettering	75
Lettering Technique	75
Notes	77
<i>Summary</i>	78
<i>Classroom Activities</i>	78
<i>Questions</i>	78
<i>Further Resources</i>	78

CHAPTER 5

The Floor Plan 79

What Is a Floor Plan?	80
What the Floor Plan Shows	80
Sketch an Existing Plan	80
Taking a Visual Inventory	83
Tools Needed for a Visual Inventory	84
How to Measure a Room	85
Measuring Tips	86
Sketching Tips	87
Wall Pochés and Thicknesses	88
Line Hierarchy	90
Line Quality	92
How to Use Ink Pens	94
Draft a Floor Plan	94
Space Planning Themes and Clearances	102
Kitchen Types	105
Kitchen Appliance Sizes, Clearances, and Dining Room Furniture Sizes	109
Accessible Kitchen Design	112
Bathroom Types and Clearances	113
Accessible Bathroom Design	116
Laundry Rooms and Closets	118
Bedroom and Living Room Furniture	118
Egress, Exits, and Hallways	121
Template Use and Figures for Tracing	122
<i>Summary</i>	129
<i>Classroom Activities</i>	129
<i>Questions</i>	129
<i>Further Resources</i>	129

CHAPTER 6

Interior Elevation and Section Views 131

What Is an Elevation View?	132
The Elevation Callout Symbol	133
Draw an Elevation	134
Placement on the Sheet	139
Longitudinal and Transverse Section Views	139
Draw a Longitudinal Section	141
Poché Symbols in Section and Elevation	145
Obtaining Height Measurements	146
Adding Entourage to Elevation and Section Drawings	147
<i>Summary</i>	153
<i>Classroom Activities</i>	153
<i>Questions</i>	153
<i>Further Resources</i>	153

CHAPTER 7

Dimensioning a Floor Plan and Elevation 155

What Is Dimensioning?	156
ANSI Standards for Dimensioning Architectural Design Drawings	156
Additional Dimensioning Rules	159
Dimensioning Differences in Wood Frame and Masonry Construction	159
Dimensioning an Interior Elevation	164
NKBA Standards for Dimensioning Cabinet and Appliance Drawings	164
Additional Cabinet Codes	167
Calculating Area	169
Dimensioning Fixtures	169
<i>Summary</i>	170
<i>Classroom Activities</i>	170
<i>Questions</i>	170
<i>Further Resources</i>	170

CHAPTER 8

Door and Window Symbols 171

Doors	172
Door Sizes	181
Door Hardware	182
Windows	184
Window Placement in Elevation	196
Window Sizes	196
<i>Summary</i>	205
<i>Classroom Activities</i>	205
<i>Questions</i>	205
<i>Further Resources</i>	205

CHAPTER 9

Building Construction and Details 207

The Foundation	209
Superstructure	215
Components of a Wood Framed House	215
Other Drawings	220
Additional Components of Wood Frame Construction	221
Wood Frame Types	224
Components of Masonry Construction	226
Types of Masonry Construction	230
Components of Steel Construction	232
Types of Steel Construction	234
Other Construction Types	237
Detail Drawings	237
Door and Window Details	241
Fireplaces	245
Millwork	252
Cabinets	254
The MasterFormat	258
<i>Summary</i>	261
<i>Classroom Activities</i>	261
<i>Questions</i>	261
<i>Further Resources</i>	261

CHAPTER 10

Utility Systems and Other Plans 263

Electricity and Electrical Plans	264
Power Plans	275
Reflected Ceiling Plans	278
Heating, Ventilation, and Air-Conditioning (HVAC) Plans	282
Plumbing Plans	288
Site Plans	295
<i>Summary</i>	298
<i>Classroom Activities</i>	298
<i>Questions</i>	298
<i>Further Resources</i>	298

CHAPTER 11

Stairs 299

Stair Features	300
Drafting a Staircase	302
Stair Types	305
Exit Stairs	311
Exterior Stairs	312
Risers and Tread Sizes	313
Creating a Grid to Draw the Stairs	314
Ramps	315
<i>Summary</i>	316
<i>Classroom Activities</i>	316
<i>Questions</i>	316
<i>Further Resources</i>	316

CHAPTER 12

Legends, Keys, and Schedules 317

Legends	318
Keys	318
Schedules	322
Callouts	326
<i>Summary</i>	327
<i>Classroom Activities</i>	328
<i>Questions</i>	328

CHAPTER 13

Isometric and Perspective Drafting 329

Drafting an Isometric Pictorial	330
Drafting an Isometric Circle	332
Drafting a Cutaway Isometric Room	335
Drafting a Cutaway Isometric of a Floor Plan	336
Perspective Pictorials	340
Drafting a Two-Point Interior Perspective	
Using the Rotated Plan Method	343
Drafting a Two-Point Perspective of a Circle	356
Drafting a One-Point Perspective	357
Adding a Sloped Ceiling	362
Troubleshooting	362
<i>Summary</i>	363
<i>Questions</i>	363
<i>Classroom Activities</i>	363
<i>Further Resources</i>	364

CHAPTER 14

Incorporating the Computer 365

CAD and Modeling Software	366
Building Information Modeling (BIM)	372
Related Software	373
Examples of Techniques	374
<i>Summary</i>	379
<i>Classroom Activities</i>	379
<i>Questions</i>	379
<i>Further Resources</i>	379

GLOSSARY

381

APPENDIX I

Floor Plans for General Classroom Use 391

APPENDIX II

Worksheets 405

INDEX 497

**Architectural Drafting
for Interior Designers**
2nd Edition

Lydia Sloan Cline

Beginning interior designers can learn how to communicate their ideas graphically with a resource designed just for them. *Architectural Drafting for Interior Designers*, Second Edition, incorporates material and examples meaningful to the practice of interior design. This book walks the reader through the critical thought and analysis processes that precede computer drafting, such as visualizing the 2D/3D relationship, how to lay out a floor plan, and how to create an interior elevation from the plan. Updated with beautiful hand sketches, enhanced worksheets, a chapter on integrating software with manual drawings, and thematically reorganized content, this edition is more comprehensive and relevant than ever. The only book to include standards of the National Kitchen and Bath Association (NKBA), it is written to satisfy standards of National Council for Interior Design Qualifications (NCIDQ), providing readers with a strong, standards-based foundation in architectural drafting.

New to this Edition:

A new chapter on incorporating the computer, showing how software and manual work can be combined for the best of both worlds.

Expanded coverage on creating interior elevations and making the visual leap from 2D drawings to 3D space, illustrated with hand-sketched examples.

New and improved end-of-book worksheets that coordinate with each chapter, allowing readers to apply the concepts they have learned.

INTERIOR DESIGN/DRAWING & PRESENTATION

www.bloomsbury.com

Cover image © Lydia Sloan Cline

ISBN 978-1-62892-096-3



9 781628 920963

Also available
from Bloomsbury

