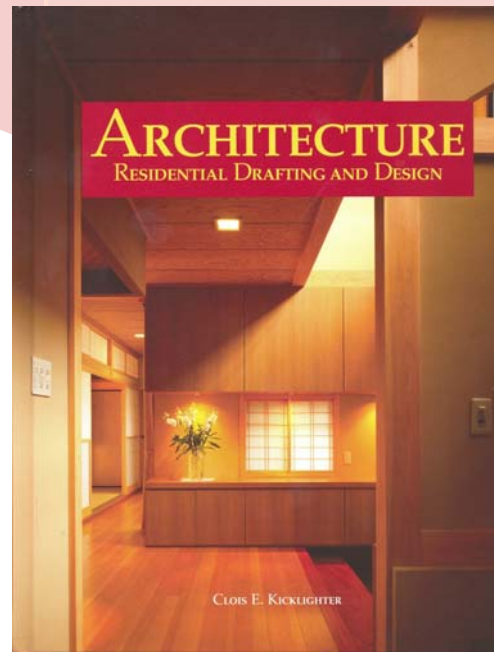




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**South Carolina Course Standards Correlation
Course: Drafting (Architectural)**

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ARCHITECTURAL DESIGN

COURSE CODE: 6170, 6171

Competency Number	Competency/Objective	Correlating Page Numbers
UNIT A:PERFORMING WORK SAFETY PRACTICES		
1	Apply safety policies and procedures.	744-745
2	Maintain a clean, orderly, safe work area.	744-745
3	Operate a fire extinguisher.	717
UNIT B:DEMONSTRATING FREEHAND SKETCHING SKILLS		
1	Sketch straight lines.	77-78
2	Sketch circles and arcs.	78-79
3	Sketch curved lines.	81
4	Sketch multi-view drawings.	68
5	Sketch pictorial drawings.	62, 607-638
6	Draw freehand technical lettering.	87-88, 90 (ACT1)
7	Indicate overall dimensions.	393
UNIT C:DEMONSTRATING BASIC DESIGN TECHNIQUES (STANDARD AND METRIC)		
1	Select proper drawing equipment to complement the design media.	68-76
2	Measure using standard scales/measuring devices.	73
3	Draw straight lines and angles.	77-78, 110

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Competency Number	Competency/Objective	Correlating Page Numbers
4	Draw circles and arcs.	78-79, 110-111
5	Draw irregular curved lines.	81
6	Demonstrate proper use, care, and adjustment of design equipment.	73
7	Draw line symbols using alphabet of lines.	83, 101, 122
8	Draw geometric figures using straight and curved lines.	78-79, 111-112
9	Draw borderlines and title block.	84, 90 (ACT#2)
10	Perform drawing setup to applicable standards (e.g., setting layers, line type, and width).	121-122
11	Identify and use view and display commands (e.g., zoom, pan, viewports, and rotation).	117-119
12	Format, enter, and edit text on a drawing.	112
13	Edit, copy, and manipulate drawing entities (e.g., properties, stretch, trimming, and scaling).	113-116
UNIT D: DEMONSTRATING PRELIMINARY FREEHAND LAYOUT SKILLS		
1	Sketch preliminary floor plans.	
2	Sketch preliminary elevation views.	
3	Sketch preliminary sections.	
4	Hand-letter drawings (letters and numbers).	90 (ACT#2)
UNIT E: DEMONSTRATING ARCHITECTURAL DESIGN SKILLS		

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Competency Number	Competency/Objective	Correlating Page Numbers
1	Draw floor plans.	396-397, 401-402, 404-407, 488 (ACT#3)
2	Draw foundation plans.	261-262, 267, 269
3	Set and control dimensioning styles.	119
4	Dimension various types of architectural plans and details.	100, 119, 393, 395
5	Prepare a window, door, and finish schedule.	95, 103-104, 408 (ACT#1)
6	Draw exterior elevations.	431-477
7	Draw interior elevations.	198-201, 142
8	Draw roof plans.	62
9	Draw related architectural plans (e.g., mechanical, electrical, or civil).	483-490
10	Draw foundation sections.	239-241, 262
11	Draw floor sections.	273-283
12	Draw wall sections.	311, 313, 434-438
13	Draw stair sections.	359-363
14	Dimension section drawings.	368 (ACT#3), 119
15	Locate section views on drawings.	239-241, 311, 313
16	Create a site plan.	217-232
17	Apply standard building codes to architectural plans.	364-366

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Competency Number	Competency/Objective	Correlating Page Numbers
18	Prepare presentation drawings.	637-660
UNIT F:COMPUTER LITERACY		
Hardware		
1	Identify hardware components of a CAD computer system.	82, 97-99, 108 (ACT#2)
Operating System		
2	Format disks and copy, delete, rename, save, and back up files and folders.	
3	Identify, create, and use folders and directory structures.	
4	Identify various file formats (e.g., .wmf, .bmp, and .jpeg).	
5	Import and export data files between formats (e.g., IGES and DXF).	
6	Use software help features.	
UNIT G:DEMONSTRATING CAD-SPECIFIC SKILLS		
1	Use the graphical user interface.	
2	Create, retrieve, edit, and use symbol libraries.	88, 106-107, 127 (ACT#1)
3	Use inquiry commands to extract drawing data (list distance and area).	116-117
4	Control entity properties.	101
5	Plot/Print drawing to appropriate scale.	102
UNIT H:DEMONSTRATING BASIC SKILLS TO PRODUCE 3-D DRAWINGS		
1	Create 3-D architectural drawings.	102-103, 123-125, 607-636
2	Create 3-D architectural renderings.	125-126, 637-660