

THREE RIVERS COMMUNITY COLLEGE
CONSTRUCTION GRAPHICS · ARC K135/L & LAB
 (Day Section: Monday 1:00 – 5:20pm)

Professor: Chuck Canavan, email CCanavan@trcc.commnet.edu

Objective: To prepare Architectural, Civil and Construction Technology students with a working knowledge of the fundamental concepts of construction graphics as a means to convey “design intent” and “constructability” to the construction industry, through the execution of actual construction drawings.

Method: Lectures, Demonstrations, Class Discussion and Studio Practice.

Text: Construction Graphics, Keith A. Bisharat

COURSE TOPICS/CONTENT

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|-------------------------|---|-------------------------|--|
| <u>Week 01</u> 08/30 | An Overview <i>History, Participants, Projects, Measurement</i> | <u>Week 09</u> 10/25 | Doors & Windows <i>Conventions, Details & Methods</i> |
| <u>Week 02</u> 09/06 | Design Drawing <i>Sketches, Ortho, Descriptive Geometry</i> | <u>Week 10</u> 11/01 | Roofing Systems <i>Conventions, Details & Methods</i> |
| <u>Week 03</u> 09/13 | Construction Drawing <i>Page Layout, Descriptive Geometry</i> | <u>Week 11</u> 11/08 | Interior Construction <i>Conventions, Details & Methods</i> |
| <u>Week 04</u> 09/20 | Site Construction Drawing <i>Site Plan Data, Grading, Structures</i> | <u>Week 12</u> 11/15 | Mechanical Systems <i>Conventions, Details & Methods</i> |
| <u>Week 05</u> 09/27 | Foundation Systems <i>Plans, Sections Details, Methods</i> | <u>Week 13</u> 11/22 | No Classes <i>Thanksgiving</i> |
| <u>Week 06</u> 10/04 | Framing Systems <i>Conventions, Details & Methods</i> | <u>Week 14</u> 11/29 | Electrical systems <i>Conventions, Details & Methods</i> |
| <u>Week 07</u> 10/11 | Framing Systems Cont'd <i>Conventions, Details & Methods</i> | <u>Week 15</u> 12/06 | Fabrication Drawings <i>Conventions, Details & Methods</i> |
| <u>Week 08</u> 10/18 | Cladding Systems <i>Conventions, Details & Methods</i> | <u>Week 16</u> 12/13 | Final Drawing Sets <i>Final Drawing Packages Due</i> |

Required Materials:

- 12" role of white trace
- 12" architect's scale
- 12" 45° triangle
- one box of drafting dots (tape)
- one 0.5mm drafting pencil
- 0.5mm H lead
- 0.5mm 2H lead
- one compass
- erasing shield
- soft stick eraser

Optional Materials:

- 6" 45° triangle
- circle template
- ¼" scale floor plan template
- adjustable triangle
- drawing broom
- 24" x 36" Drafting Top