

THREE RIVERS COMMUNITY COLLEGE  
**BUILDING CODES & ORDINANCES ARC K227**  
 Spring Semester 2011, Tuesday 6 – 8:45pm

Instructor: Rick Staub, AIA, ph \_\_\_\_\_ email [staub@pointonearchitects.com](mailto:staub@pointonearchitects.com)

Grade: Quizzes (4) 50% Mid term 25% Final 25%

Course Objectives:

To introduce the Architectural Design and Technology students to the origins, scope and administration of local, state and federal codes and ordinances. Students will be exposed to the elements of these codes and ordinances and to the impacts they have on the design, construction, and occupancy of a project. Students will develop a working knowledge of the subject material as they track a hypothetical project from preliminary zoning research, through design and construction and ultimately the issuance of a “certificate of occupancy”.

Method: Lectures, Slide Lectures, Simulations, Class Discussion

Text: **International Building Code (IBC) 2003, (and Instructor Supplements)**

*(Note: The course’s weekly subjects follow the book’s layout in sequential chapter order. Please read corresponding subject-chapter material prior to each class.)*

<u>Week 1</u> (1/25)	<b>Over-view</b> (Introduction) A Historic Look at Codes & Ordinances	<u>Week 9</u> (3/22)	<b>Means of Egress</b> Cont’d Path-of-travel, Stairs, Exits
<u>Week 2</u> (2/01)	<b>Zoning Regulations</b> Use, Bulk, Design & Hazard Zones	<u>Week 10</u> (3/29)	<b>Accessibility</b> pp225-236 Circulation & Barrier-Free
<u>Week 3</u> (2/08)	<b>Use Group and Occupancy</b> pp23-37 Table 302.3.2	<u>Week 11</u> (4/05)	<b>Interior Environment</b> p239-242 Walls, Floors & Ceilings
<u>Week 4</u> (2/15)	<b>General Building Limitations</b> pp73-77 Table 503	<u>Week 12</u> (4/12)	<b>Exterior Envelopes</b> pp243-265 Walls and Roofs
<u>Week 5</u> (2/22)	<b>Types of Construction</b> pp81-82 Tables 601 & 602	<u>Week 13</u> (4/19)	<b>Structural Design</b> pp267-343 Live/Dead Loads, Lateral Forces
<u>Week 6</u> (3/01)	<b>Fire Resistance Rated Constr.</b> pp85-110 Fire Walls, Penetrations & Openings	<u>Week 14</u> (4/26)	<b>Materials</b> pp362-341 Soils, Concrete, Masonry
<u>Week 7</u> (3/08)	<b>Means of Egress</b> pp193-223 Path-of-travel, Stairs, Exits	<u>Week 15</u> (5/03)	<b>Materials</b> pp437-542 Steel, Wood, Glazing, Gyp. Bd.
<u>Week 8</u> (3/15)	<b>Spring Break</b> No Classes in Session	<u>Week 16</u> (5/10)	<b>MEP Systems</b> Mechanical, Electrical & Plumbing

**COURSE REQUIREMENTS:**

**Notebook**

Students will assemble a notebook, to be made up of handouts distributed at the beginning of each class. A 3” “*Slant-ring*” notebook with plastic sheet protectors is recommended – this will be a good resource for future reference.