

THREE RIVERS COMMUNITY/TECHNICAL COLLEGE  
**BUILDING MATERIALS**  
**ARC 2220**  
Syllabus - Spring 2004

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Grading: 4 Quizzes = 50%, Mid-term Exam = 25%, Final Exam = 25%

Objective: This course introduces students to the source, use and limitations of materials used in building construction. Emphasis shall be placed on the basic design concepts and the practical applications of building materials in-the-field. Focus is also placed on historical uses of material as design expression. Practical working knowledge is attained through site visits of projects under construction (as available).

Text: Building Construction Illustrated, Francis D.K. Ching  
(*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> 1/29	Site Work; Surface and Subsurface	<u>Week 9:</u> 3/25	Doors & Windows; Residential & Commercial, Visit
<u>Week 2:</u> 2/05	Concrete; Properties and uses	<u>Week 10:</u> 4/01	Finishes; Walls, Flooring & Millwork
<u>Week 3:</u> 2/12	Masonry; Properties, Patterns, Bonds	<u>Week 11:</u> 4/08	Equipment & Assessories; Fixtures & Furnishings
<u>Week 4:</u> 2/19	Wood; Rough Carpentry	<u>Week 12:</u> 4/15	Mechanical; Plumbing & HVAC
<u>Week 5:</u> 2/26	Wood; Finish Carpentry	<u>Week 13:</u> 4/22	Electrical; Service, Wiring
<u>Week 6:</u> 3/04	Metals; Properties, Structural & Non Struct.	<u>Week 14:</u> 4/29	Design Topics; Aesthetics, Form, Texture, Color
<u>Week 7:</u> 3/11	Thermal & Moisture Protection; Insul, Roof, Siding (Out of class project)	<u>Week 15:</u> 5/06	Compliance Topics; Codes, Flame Spread, STC, etc.
<u>Week 8:</u> 3/15-19	<b>Spring Break;</b> (No Classes)		

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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.