

THREE RIVERS COMMUNITY COLLEGE
TRENDS & ISSUES – SUSTAINABLE ARCHITECTURE

Fall Semester 2007, Tuesday/Thursday 3pm - 4:20pm

Instructor: Professor Mark Comeau, AIA, (885-2387.), email MComeau@trcc.comnet.edu

Grade: Quizzes (4) 50% Mid term 15% Essay 20% Final 15%

Course Objectives:

This special offering in current industry topics explores sustainability in design, healthy design, renewable energy, co-generation, recycling, low VOC, zero carbon, and LEED as they relate to regional and urban planning, building design, building envelope, building interior environment, site ecology, energy resources, and infrastructure and transportation.

Method: Lectures, Slide Lectures, Simulations, Class Discussion

Text: **Instructor Supplements**

(Note: Documentation appropriate to the scheduled lecture will be distributed at the time of each lesson.)

<u>Week 1</u> (8/28)	Over-view (History & Introduction) Defining Sustainable, Green, Healthy, LEED	<u>Week 9</u> (10/23)	Building Interior Environment Indoor Air Quality, Low VOC
<u>Week 2</u> (9/04)	Macro Regional Pattern Impacts Planning Strategy & Designing Quality	<u>Week 10</u> (10/30)	Building MEP Systems Materials & Systems
<u>Week 3</u> (9/11)	Micro Regional Pattern Impacts Main Street & the “Big Box”	<u>Week 11</u> (11/06)	Building MEP Systems Operation & Life-cycle
<u>Week 4</u> (9/18)	Site Planning & Design Orientation, Hard & Soft-Scapes	<u>Week 12</u> (11/13)	Building FF&E Fixtures & Furniture
<u>Week 5</u> (9/25)	Natural Resources Water Depletion, Pollution, Conservation	<u>Week 13</u> (11/20)	Thanksgiving Break (Schedule Float)
<u>Week 6</u> (10/02)	Energy Resources Renewable & Co-generation	<u>Week 14</u> (11/27)	Sustainable Projects Conversion & Integration
<u>Week 7</u> (10/09)	Building Design “Green”, LEED & Buying in	<u>Week 15</u> (12/04)	Case Study Creating a Green Village
<u>Week 8</u> (10/16)	Building Structures & Envelopes Green Materials & Methods	<u>Week 16</u> (12/11)	Conclusion Exam, Final Projects Due

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.

Case Study

Case study will be due no later than the beginning of the last (16th) week but no sooner than the 15th.

More details will be discussed in class.