THREE RIVERS COMMUNITY COLLEGE

ARC K280 TRENDS & ISSUES, "GIS USE IN ARCHITECTURE"

Tuesday & Thursday 4:00 - 5:15pm

Instructor: Professor Mark Comeau, (885-2387,), email mcomeau@trcc.commnet.edu

Grade: Projects 80% In-class Exams 10% Participation 10%

Course Description:

This "topics" course draws together the many elements of architectural graphic representation and expands the use and abilities of spatial issues using modern application and software. Combining ArcGIS, CAD, SketchUp, and database applications, students will create problem solutions that utilize complex multi-variable analysis while being challenged to communicate such solutions as the architecture profession traditionally has – creating easily understood graphics and modeling.

Method: Demonstration Accompanied by Lecture and Project-based Exercises

Text: Getting to Know ArcGIS Desktop, ESRI, (Students procure through Amazon)

(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.)

Week 1	Ov	er-v	view &	Content Mapping		Week 9	Ar	chitec	tural	l Application Unit 1	
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(8/28) Review of course content & approach
Homework: Map your neighborhood (to be discussed)

(10/23) Acquiring Site Data
Homework: Micro - Boundary, Zone, Bulk Requirements

Week 2 Historical Perspectives Week 10 Architectural Application Unit 1 Cont'd

(9/04) Cartographic Development (10/30) Acquiring Site Data

Homework: Map use discovery (Rubric provided)

Homework: Macro - affiliated neighborhood components

Week 3 Modern Capabilities Week 11 Architectural Application Unit 2

(9/11) Representation & Geo-analyzing (11/06) Site Analysis
Homework: Where's the wealth? (Rubric provided) Homework: Mapping Natural Components

Tronework: Where 3 the weather. (Rubble provided)

Week 4 Intro to ArcGIS Basics Week 12 Architectural Application Unit 2 Cont'd

(9/18) Data Overview, Data Sources Homework: Making 1st GIS Map (Rubric Provided) (11/13) Site Analysis Homework: Mapping Cultural Components

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Week 5 Intro to ArcGIS Basics Cont'd Week 13 Thanksgiving Break (9/25) Metadata, GIS Data Attributes (11/20) Schedule Float

Homework: Building a Data Base

Week 6 ArcGIS Maps Week 14 Architectural Application Unit 3

(10/02) Cloropleth & Categorical Maps Homework: Making 1st GIS Map (Rubric Provided) (11/27) Capstone Project (TBA) Homework: Data Accumulation

Week 7 ArcGIS Maps Week 15 Architectural Application Unit 3 Cont'd

(10/09) Filtering, Querying, Labeling (12/04) Capstone Project

Homework: Analyzing Data (Rubric Provided)

Homework: Modeling

Week 8 ArcGIS Maps (10/16) How Maps "Lie" Week 16 Final Project (12/11) Presentations

Homework: The Map Fallacy (Rubric Provided)

Trends & Issues Course Outcomes:

- Attain working knowledge of ArcGIS;
- Attain understanding of modern spatial representation systems and uses;
- Demonstrate an understanding of spatial analysis;
- Be able to identify the output "need" and generate solution components;
- Demonstrate the ability to identify and solve spatial problems;
- Demonstrate the ability to assemble and synthesize data sets;
- Demonstrate the ability to use ArcGIS and other software to model creative solutions.

ACADEMIC INTEGRITY

Any and all exams, papers or reports submitted by you and that bears your name is presumed to be your own original work that has not previously been submitted for credit in another course unless you obtain prior written approval to do so from your professor.

In all of your assignments, including homework or drafts of papers, you may use words or ideas written by other individuals in publications, web sites, or other sources but only with proper attribution. "Proper attribution" means that you have fully identified the original source and extent of your use of the words or ideas of others that you reproduce in your work for this course, usually in the form of a footnote or parenthesis.

As a general rule, if you are citing from a published source or from a web site and the quotation is short (up to a sentence or two), place it in quotation marks; if you employ a longer passage from a publication or web site, please indent it and use single spacing. In both cases, be sure to cite the original source in a footnote or in parentheses. (See http://www.plagiarism.org/plag_article_how_do_I_cite_sources.html for more information on citing.)

If you are uncertain about the expectations for completing an assignment or taking a test or examination, be sure to seek clarification from your professor beforehand.

Finally, you should keep in mind that as a member of the Three Rivers Community College community, you are expected to demonstrate integrity in all of your academic endeavors and will be evaluated on your own merits.

Be proud of your academic accomplishments and help to protect and promote academic integrity. The consequences of cheating and academic dishonesty may include a formal discipline file, possible loss of financial scholarship or employment opportunities, and denial of admission to a four year college.