

THREE RIVERS COMMUNITY COLLEGE
CONSTRUCTION CAD, CAD K214/215
 Spring Semester 2013, Wednesday 5:30 – 9:45PM

Instructor: Professor Mark A. Comeau, 860.885.2387, email MComeau@trcc.commnet.edu
 Grade: Line Weight 60% Accuracy 15% Cleanliness 15% Organization 10%
 Course Objective: Construction CAD is an industry-specific sequential course to Intro to AutoCAD, where students (after attaining working knowledge of the software), implement the methods and purposes of architectural drawing details which convey design intent while illustrating constructability of detail, the materials, assemblies and methods to be used in construction. Students learning outcomes are augmented through construction observation, detail observation and a hands-on scaled detail building project.
 Method: Lectures, Demonstration, Slide Lectures, Class Discussion
 Text: TBA

CAD & Architecture Basics

Week 1 The “Set” Template
 (1/30) Managing Model, Paper & Ports

Week 2 Creating an “As-built”
 (2/06) Field Sketch-to-digital

Week 3 Site Plans
 (2/13) X-ref & Tracing

The “Plans”

Week 4 Building the Floor Plan
 (2/20) Walls, Objects & Details

Week 5 Building the Foundation Plan
 (2/27) Alignment, Poche & Structure

Cutting the “Section”

Week 6 Building the “Typical Wall”
 (3/06) Foundation, Wall & Roof

Week 7 Building the “Cross Section”
 (3/13) Defining Structural Space

Week 8 **Spring Break**
 (3/20) No Classes

Building the “Elevation”

Week 9 The Primary Elevation
 (3/27) Regulating Lines, Projection from Plan

Week 10 Building Secondary Elevations
 (4/03) Line Projection

Week 11 Elevation Detailing
 (4/10) Breakouts, Notes, Dims

Section Details - Finishes

Week 12 Interior Finish Elevations
 (4/17) Building the View

Week 13 Interior Finish Sections
 (4/24) Cabinetry & Millwork

Final Portfolio

Week 14 Misc. Finishes
 (5/01) Stairs, Fireplaces, Casework, etc.

Week 15 Final Drawing Set
 (5/08-15) Completing the Digital Portfolio

LEARNING OBJECTIVES:

- Develop further understanding of a drawing set’s role to illustrate assembly and constructability in the CAD environment.
- Develop an understanding of building systems and their integration in design and performance.
- Demonstrate working knowledge of the various codes, ordinances and regulations effecting designs and how architectural details are designed and drawn to convey field construction of such.

ACADEMIC PERFORMANCE

Lecture Period:

Students shall respect the classroom environment. Professors invest valuable time in lecture preparation to make the course content organized, interesting, and understandable and to make the learning environment collegial. Unless specifically directed by the professor, students shall refrain from sending email and instant messages, or from engaging in other activities (reading non-course materials, engaging in private conversations and so on), that disrespect the classroom environment and learning conditions for others.

Access to the Internet can be a valuable aid to the classroom learning environment. Students are encouraged to use laptops, smart phones, and other devices in order to explore concepts related to course discussions and topics. Students are discouraged from using technology in ways that distract from the learning community (e.g. Facebook, texting, work for other classes, etc.) and if found doing so, will be asked to leave the classroom for the day and will not get credit for attendance that class period.

Assessment:

Assessment of your mastery of the Courses learning objectives is administered through quizzes, exams, and essays. These are announced with ample preparation time and sometimes a study guide. Upon absence from a class in which an assessment is given, it is the student's responsibility to request, coordinate and schedule, a makeup date and time with the professor. Assessments not made up within one week from when initially given will result a three point reduction from the score earned, per class period lapse.

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.