

THREE RIVERS COMMUNITY COLLEGE  
**CONSTRUCTION CAD, CAD K214/215**  
 Spring Semester 2015, Wednesday 5:30 – 9:45PM

Instructor: Professor Mark A. Comeau, 860.885.2387, email [MComeau@trcc.comnet.edu](mailto:MComeau@trcc.comnet.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**

Unit 1 The “Set” Template  
 Managing Model, Paper & Ports

Unit 2 Creating an “As-built”  
 Field Sketch-to-digital

Unit 3 Site Plans  
 X-ref & Tracing

**The “Plans”**

Unit 4 Building the Floor Plan  
 Walls, Objects & Details

Unit 5 Building the Foundation Plan  
 Alignment, Poche & Structure

**Cutting the “Section”**

Unit 6 Building the “Typical Wall”  
 Foundation, Wall & Roof

Unit 7 Building the “Cross Section”  
 Defining Structural Space

**Spring Break**  
 No Classes

**Building the “Elevation”**

Unit 8 The Primary Elevation  
 Regulating Lines, Projection from Plan

Unit 9 Building Secondary Elevations  
 Line Projection

Unit 10 Elevation Detailing  
 Breakouts, Notes, Dims

**Section Details - Finishes**

Unit 10 Interior Finish Elevations  
 Building the View

Unit 12 Interior Finish Sections  
 Cabinetry & Millwork

**Final Portfolio**

Unit 13 Misc. Finishes  
 Stairs, Fireplaces, Casework, etc.

Unit 14 Preparing the Final Drawing Set  
 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.

### Online Learning Portfolio:

All students are required to maintain an online learning portfolio in Digication that uses the college template, in as much as it is pertinent and supported by outcome products of this course. Through this electronic tool students will have the opportunity to monitor their own growth in college-wide learning. The student will keep his/her learning portfolio and may continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. Student work reviewed for assessment purposes will not include names and all student work will remain private and anonymous for college improvement purposes. Students will have the ability to integrate learning from the classroom, college, and life in general, which will provide additional learning opportunities. If desired, students will have the option to create multiple portfolios.

### 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](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.