

# SYLLABUS

## CAD K202 T1 & T1A

### CAD Advanced Topics

CRN 31179 & 31179

Tuesdays 5:30 PM – 9:40 PM

1/24/2017 – 5/9/2017

Room D115

THREE RIVERS COMMUNITY COLLEGE

NORWICH, CONNECTICUT 06360

Chris Petersen, INSTRUCTOR [cpetersen@trcc.commnet.edu](mailto:cpetersen@trcc.commnet.edu)

Spring 2017

#### COURSE DESCRIPTION

CAD K202 Computer Aided Drafting Advanced Topics utilizes AutoCAD software in a PC environment. Topics given in the lecture will be learned through solving application problems on the computer. The text for the course is AutoCAD 2016 by James A. Leach

#### LEARNING OUTCOMES AND OBJECTIVES

*The student will be able to*

- Learn AutoCAD advanced draw commands.
- Effectively use BLOCK and XREF commands.
- Manage drawings using layers, line types and color.
- Create pictorial, section and auxiliary views.
- Create advanced drawings.
- Create 2D drawings from 3D objects.
- Identify, analyze and solve technical drawing problems.
- Communicate effectively through the use of AutoCAD
- Demonstrate proficiency in the use of AutoCAD

#### INSTRUCTOR CANCELLATION OF CLASSES

There may be instances when it will be necessary for the instructor to independently cancel classes such as for illness or personal inability to travel safely to the college. In these instances the instructor will attempt to notify students at least two hours in advance that classes will not be held. Notifications will be made by school email. It is the student's responsibility to check *their school email* regularly.

#### GRADING

Grades will be weighted: 30% classroom assignments, 60% Homework, 10% tests and quizzes.

## ACADEMIC INTEGRITY

Students are expected to do their own work in this class. Working together to better understand the material is acceptable. Submitting duplicate work is not acceptable and will adversely affect the assignment grade. Example violations include but are not limited to:

- o Copying a file or any portion of a file from another student
- o Sharing or allowing another student to copy your files or any portion of a file
- o Duplicating or distributing copies of licenses for software programs and/or services

## MYCOMMNET ALERT

MyCommNet Alert is a notification system that delivers critical information to students, faculty and staff of the Connecticut Community Colleges in the event of an emergency. The system delivers emergency messages through text messaging over cellular phones. Emergencies may include campus-related immediate health or safety situations and may also include weather-related college delays or closings. All students are encouraged to sign up for myCommNet Alert. Instructions for enrolling in myCommNet Alert and additional details are available at: [MyCommNet Alert](#).

## STUDENT EMAIL

The Connecticut Community Colleges issue student email addresses to all students. The College-issued student email will be the official mode of communication with students on administrative matters. Students may look up their email address in myCommNet. Directions are available at: [Student Email Guide](#).

## DISABILITIES STATEMENT

If you are a student with a disability and believe you will need support services and/or accommodations for this class, please contact the Disabilities Support Services at TRCC. Please note that the instructor cannot provide accommodations based upon disability until the instructor has received an accommodation letter from the Disabilities Counselor. Accommodations take effect when the instructor receives the paperwork from a student- accommodations cannot be provided retroactively.

***DISCLAIMER: THE INSTRUCTOR RESERVES THE RIGHT TO REVISE INFORMATION CONTAINED IN THIS SYLLABUS. CHANGES, IF ANY, WILL BE ANNOUNCED IN CLASS.***

## CLASS TOPICS - TEXT READING - LAB EXERCISES

| DAY | TOPIC   | CHAPTER           | ASSIGNMENT               |
|-----|---|-------------------|--------------------------|
| 1   | Review: 2D drafting, Titleblock creation, Dimstyles, plotstyles | Drawings provided |                          |
| 2   | Review: Multiview Drawings                                      | 24                | Page 638-639 Ex. 2-4     |
| 3   | BLOCK command. Creating, editing and using blocks               | 21                | Page 539-542 Ex. 1-5     |
| 4   | Pictorial drawings  | 25                | Page 652-653 Ex. 1-3     |
| 5   | Section views   | 26                | Page 678-679 Ex. 1-3     |
| 6   | Auxiliary views   | 27                | Page 693-694 Ex. 3,4 & 6 |
| 7   | Dim styles and Dim vars   | 28                | Drawings provided        |
| 8   | Advanced layout and details                                     | 32                | Page 927-929 Ex. 1-3     |
| 9   | Solid modeling – Creating Solid Models                          | 35                | Page 1078-1079 Ex. 9-12  |
| 10  | Solid modeling - Editing  | 36                | Page 1080-1081 Ex. 13-15 |
| 11  | Solid modeling - Dimensioning                                   | 36                | Page 1078-1079 Ex. 9-15  |

|    |                                      |               |  |
|----|--------------------------------------|---------------|--|
| 12 | Solid modeling – 2D Drawings from 3D | 37            | Page 1078-1079 Ex. 9-11  |
| 13 | Solid modeling – 2D Drawings from 3D | <del>37</del> | <del>Page 1078-1079 Ex. 9-11</del><br>Page 1079-1080 Ex. 12-14 |
| 14 | Independent Projects                 |               |  |
| 15 | Final Exam                           |               |  |