



Course Number and Title: CET 220 Civil CAD Basics

Campus Location:
Georgetown, Stanton

Effective Date:
2018-52

Prerequisite:
CET 125 or concurrent

Co-Requisites:
none

Course Credits and Hours:
1.00 credits
1.00 lecture hours/week
0.00 lab hours/week

Course Description:

This course introduces computer aided design (CAD) software used in the civil engineering field. Basic CAD tools for printing and manipulating CAD drawings are introduced.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:
None

Schedule Type:
Classroom Course

Disclaimer:
None

Core Course Performance Objectives (CCPOs):

1. Initiate CAD drawings with appropriate values for drafting settings.(CCC 1, 2, 5; PGC: CTO 1, 2, 4)
2. Use common CAD drawing and editing commands. (CCC 1, 2, 5; PGC: CTO 1, 2, 4)
3. Initiate print/plot commands with proper settings. (CCC 1, 2, 5; PGC: CTO 1, 2, 4)
4. Demonstrate professional and ethical conduct as expected in industry.(CCC 1, 2, 3, 4, 5, 6, 7; PGC: CTO 1, 2, 4)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Initiate CAD drawings with appropriate values for drafting settings.
 1. Identify methods to open CAD drawing files.
 2. Identify methods to create new CAD drawing files.
 3. Recognize methods to change drawing settings such as units, layers, and text size.
 4. Describe the significance of drawing settings such as units, layers, and text size.
2. Use common CAD drawing and editing commands.
 1. Identify common tools and toolbars.
 2. Use common drawing commands such as line and polyline.
 3. Use common edit commands such as copy, move, and offset.
 4. Use common text commands.
3. Initiate print/plot commands with proper settings.
 1. Identify common printing/plotting settings.
 2. Recognize common methods of title block layout in respect to drawings.
 3. Use print/plot command.
4. Demonstrate professional and ethical conduct as expected in industry.
 1. Identify the need for self-discipline and time management in technical industries.
 2. Communicate and function effectively as a member of a team.

Evaluation Criteria/Policies:

Students must demonstrate proficiency on all CCPOs at a minimal 75 percent level to successfully complete the course. The grade will be determined using the Delaware Tech grading system:

92	-	100	=	A
83	-	91	=	B
75	-	82	=	C
0	-	74	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Final Course Grade:

Calculated using the following weighted average

Evaluation Measure	Percentage of final grade
Assignments (Formative) (weighted equally)	20%
Exams (2) (Summative) (weighted equally)	50%
Plot Plan Project (Summative)	30%
TOTAL	100%

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):**CETAASCTO:**

1. Apply the knowledge, techniques, skills, and applicable tools of the discipline to engineering activities, including but not limited to site development, hydraulics and hydrology, grading, and structural systems.
2. Use graphic techniques and productivity software to produce engineering documents.
3. Apply fundamentals of science and mathematics to solve engineering problems.
4. Demonstrate a commitment to quality, timeliness, professional development, and continuous improvement.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.