



Course Syllabus

CAD1110: Introduction to CAD

Engineering and Industrial Technologies

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**Class Days:**

**Class Time:**

**Location:** Classroom:

Laboratory:

**Credit Hours:** 3      **Contact Hours:** 4

**Lab Hours:** 2      **Lecture Hours:** 2

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**Instructor:** Tonya Breidenbach

**Office Location:** E215R

**Phone:** (419) 559-2450

**Email Address:** tbreidenbach@terra.edu

**Office Hours:**

Mondays and Wednesdays: TBA

Tuesdays and Thursdays: TBA

Fridays: TBA

**Division Office/Location:** E107

**Division Fax:** (419) 334-2300

**Full-time Contact Person:** Tonya Breidenbach      **Phone(s):** (419) 559-2450

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**Course Description:**

An introductory course in the basic operation of a computer assisted drafting system. Use of the commands and input devices will be stressed. The course will begin in the very beginning level of CAD while producing generic 2-D drawings without emphasis on any specific discipline. A study of advanced drafting and dimensioning techniques will then be covered to create efficient shop floor drawings will be covered. Later topics in this course will include: complex orthographic and isometric drawings, Sectioning, assemblies, and basic commands and operations of 3D modeling using AutoCAD.

**Prerequisite(s):**

None

**Corequisite(s):**

None

**Entry Level Skills and Knowledge:**

The student should know how to turn on a computer, use a mouse, and have a basic understanding of Windows.

**Required Texts, Supplies and Equipment:**

CAD111 Book from bookstore

Folder for handouts

Media to save work to such as CD's, thumb drives, or floppy disks (there are no floppy drives in E214)

Report folder or 3-ring binder for portfolio

**Grading:**

There will be a total of 15 drawings given out during the course of the semester. Drawings 1-5 will be worth 5 points each (25 points total). Drawings 6-15 will be worth 12 points each (120 points total). One group drawing will be completed for up to 10 points. A 15 point timed midterm and a 20 point timed final exam will be given. A portfolio will also be required for 10 points.

180-200 points	(90%-100%)	A
160-179 points	(80%-89%)	B
140-159 points	(70%-79%)	C
120-139 points	(60%-69%)	D
0-119 points	(0%-59%)	F

**Learning Outcomes:**

## General Education

1. **Communicate effectively**
2. **Evaluate arguments in a logical fashion**—Competence in analysis and logical argument are explicit learning goals for most general education programs, although these skills go by a variety of names (e.g., critical thinking, analysis, logical thinking, etc.). **Students will be able to demonstrate competence in problem solving in communication, mathematics, and in team settings.**
3. **Employ the methods of inquiry characteristic of natural sciences, social sciences, mathematics, and the arts and humanities;** general education introduces students to methods of inquiry in several fields of study and thereby prepares students to integrate information from different disciplines.

## General Education

- Problem Solving
- Communicating
- Using Technology
- Number Sense
- Listen

## Technical

- Generate CAD drawing w/all required views & dimensions
- Complete work on time
- Provide portfolio including all documentation required

**Assessment of Student Learning:**

This course may include a project that is one of several that will be used by faculty to assess student academic performance in the program. A panel of faculty will review all (projects or whatever assessment activity you are doing), then assess and summarize the academic performance of students at this point in the program. The results of this assessment will be shared among the department faculty, used to identify needed changes or improvements, and submitted to the Student Academic Assessment Committee as part of the college's overall student academic assessment effort.

Assessment Project and Measurement in course (if any): none

**Plan of Work:**

Session	Date	Activities
Day 1		Introductions Syllabus
Day 2		Chapter 1 Chapter 2 Drawing #1 handed out
Day 3		Chapter 3 Drawing #2 handed out
Day 4		Chapter 4
Day 5		Chapter 5 Drawing #3 handed out
Day 6		Chapter 6 Drawing #4 handed out
Day 7		Chapter 7 Drawings #1&#2 turned in
Day 8		Chapter 8 Drawing #5 handed out
Day 9		Chapter 9 Drawing #6 handed out
Day 10		Chapter 10 Drawings #3&#4 turned in
Day 11		Chapter 11 Drawing #7 handed out
Day 12		Chapter 12 Drawing #8 handed out
Day 13		Chapter 13 Drawings #5&#6 turned in
Day 14		Chapter 14 Drawing #9 handed out
Day 15		Midterm Exam
Day 16		Chapter 15 Drawings #7&#8 turned in Drawing #10 handed out
Day 17		Chapter 16
Day 18		Chapter 17 Drawing #11 handed out
Day 19		Chapter 18 Drawings #9&#10 turned in
Day 20		Chapter 19 Drawing #12 handed out
Day 21		Chapter 20 Drawing #13 handed out
Day 22		Chapter 21 Drawing #11 turned in
Day 23		Chapter 22 Drawing #12 turned in

Day 24	Chapter 23 Drawing #13 turned in
Day 25	Chapter 24 Drawing #14 handed out
Day 26	Chapter 25 Drawing #15 handed out
Day 27	Chapter 26 Drawing #14 turned in
Day 28	Open Lab Drawing #15 turned in Group Drawings turned in
Day 29	Open Lab
Day 30	Open Lab-Portfolios due

### **Course Requirements:**

The students will be required to complete all assignments on times. Drawings received after the deadline date will not receive full credit. Besides the main drawing disk, each student must keep two separate backup disks with all drawing assignments. To complete the course requirements, it may be necessary to turn in one of these disks at the end of the quarter. Overdue drawings will receive a late penalty 1/2 point per calendar day overdue.

### **Policies**

**Course Withdrawing:** If for any reason you need to withdraw from this course, be certain that you do so according to College procedure. It is your responsibility to know and follow this procedure. If you simply stop coming to class, without officially withdrawing from the course, your grade is an automatic “F.” Please follow official College procedure for withdrawing from this or any course.

*College Academic Policies are located in the College Catalog. A copy of the current catalog may be picked up in any of the division offices or admissions. The list of college policies is also available online at <https://www.terra.edu/register/Collegecat/policies.asp>.*

**Support Services:** The College offers a number of support services to assist in your success in this course and all courses. Among these services are the Writing & Math Center in B105, the Office of Learning Support Services, which coordinates the campus disability services and tutoring programs, the computer labs, and the computers in the atriums.

Any student who feels he/she may need an accommodation based on the documentation of a disability should contact the Office of Learning Support Services privately to discuss his/her specific issues. Please contact the OLSS at (419) 334-8400 X 208 or visit 100 Roy Klay Hall (Building A) to coordinate reasonable accommodations.

***If you have a documented disability and are receiving academic accommodations through the Office of Learning Support Services, please schedule a meeting with your instructor in a timely manner so that we may discuss how these services will be arranged.***

Tutoring services are available to students beginning the second week of every quarter. Students requesting tutoring services should obtain a tutor request form from the OLSS in 100 Roy Klay Hall

(Building A) or online at the Terra website. Please note that instructor verification and acceptance of the Student Learner Agreement is necessary for all tutoring requests. All requests should be submitted to 100 Roy Klay Hall (Building A).