

CASPER COLLEGE COURSE SYLLABUS  
**ENTK 1510 Drafting I Sec. 01, 02**

**Semester/Year: Fall 2015**

**Lecture Hours: 2**

**Lab Hours: 4**

**Credit Hours: 4**

**Class Time:**

Sec. 01 9:00-11:50 AM

Sec. 02 12:30-3:15 PM

**Days:**

Sec. 01 TTH

Sec. 02 TTH

**Room: GW 212**

**Instructor's Name:** Jason Eggemeyer

**Instructor's Contact**

**Information:** Email and text messages are the most efficient methods of contacting me.

**Office Phone:** 268-2409

**Cell Phone:** 258-3216

**Email:**

jeggemeyer@caspercollege.edu

**Office Hours:**

MW 8:25AM-9:00PM, 11:50PM-12:30PM

TTH 8:25AM-9:00PM, 11:50PM-12:30PM

**Course Description:** An introductory course in industrial communications through technical drawing and computer-aided drafting. Topics include sketching, lettering, geometric construction, multiview and axonometric projections, dimensioning using traditional drafting instruments and computer-aided drafting equipment.

**Statement of Prerequisites:** None

**Goal:** To ready those who are preparing for a career in industry to be able to communicate graphically by using accepted engineering standards for technical drawings. Emphasis is placed on being able to develop and record ideas and transmit them to those who will execute these plans.

**Outcomes:**

1. Solve problems using critical thinking and creativity.
2. To develop in each student an understanding of technical drawing and the ability to visualize an object from any position.
3. To develop in each student the ability to sketch correctly in order to transmit these ideas to those who formally draw or execute the design
4. To develop in each student the ability to prepare formal technical drawings by using the instruments of the profession.
5. To develop in each student the ability to utilize accepted standards for technical drawings.

**Course Objectives:** Each student will compile a working portfolio that demonstrates their abilities within the field of drafting.

**Methodology:** Students will be given daily lectures, demonstrations, videos, and PowerPoint presentations focusing on the topic at hand, to be followed by an appropriate lab assignment on the computer. Most assignments will require time outside of class to complete. To facilitate working

outside of regular class hours, open CAD lab hours will be announced at the beginning of each semester.

**Evaluation Criteria:** Final grades will be based upon class assignments, tests, and participation according to the following percentages:

- 50% Tests
- 40% Daily Work and Quizzes
- 10% Portfolio

90-100 = A

80-89 = B

70-79 = C

60-69 = D

0-59 = F

**Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.**

**Required Text, Readings, and Materials:**

**Text:** Madsen, D. A., Madsen, D. P. (2012). Engineering Drawing and Design, Fifth Edition. Albany: Delmar Cengage Learning. ISBN: 1111309574.

**Equipment and Supplies Needed Per Student:**

- 45 deg triangle
- 30/60 deg triangle
- Compass (good quality, not plastic)
- Architect Scale
- Engineer Scale
- .5 mm mechanical pencil (Good quality with metal tip to use with triangles)
- Eraser
- USB storage drive (1gig or bigger)

**Class Policies: Last Date to Change to Audit Status or to Withdraw with a W Grade:** Attendance is required for success in this class. In the case of any absence (excused or unexcused), the student is still responsible for all due dates and deadlines for projects. 10% per day will be deducted from all late work. No makeup will be given on Tests and daily quizzes unless special arrangements have been made. The last date to withdraw is November 13.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

**Academic Dishonesty: (Cheating & Plagiarism)** Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, [bheuer@caspercollege.edu](mailto:bheuer@caspercollege.edu). The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

**Schedule indicating course content:**

<u>Week</u>	<u>Chapter</u>	<u>Topic</u>
1	1	Introduction to Engineering Drawing & Design
	3	CADD/AutoCAD
2	6	Lines and Lettering
3		
Test 1		
4	2	Drafting Equipment, Media, and Reproduction Methods
5	5	Sketching Applications
6	7	Drafting Geometry
7		Start chili cooker
Test 2		
8	8	Multiviews
9	9	Auxiliary Views
10		
11		Chili cooker CAD file due
Test 3		
12	10	Dimensioning and Tolerancing
13	14	Pictorial Drawings and Technical Illustrations
14		Explore CADD Software (Revit, SolidWorks, Inventor, Civil 3D)
16 (Finals Week)		Portfolio Review
Test 4		

**IN ADDITION TO THE CHAPTERS OF THE TEXT, STUDENTS ARE RESPONSIBLE FOR ALL SUPPLEMENTAL HANDOUTS AND LECTURES**

**TAKE NOTES**

**SCHEDULE SUBJECT TO CHANGE**