

CASPER COLLEGE COURSE SYLLABUS
ENTK 1750 Commercial Architectural Drafting Sec. 01

Semester/Year: Fall 2015

Lecture Hours: 2

Lab Hours: 4

Credit Hours: 4

Class Time:
9:00-11:50 AM

Days: MW

Room: GW 212

Instructor's Name: Jason Eggemeyer

Instructor's Contact Information: Email and text messages is the most efficient method 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: ENTK 1510 Drafting I, or permission of instructor

Goal: To prepare students for a career in drafting or related fields by being able to communicate graphically and use accepted AIA and NCS standards for architectural drawings. Emphasis is placed on students developing a professional level of competency in the area of commercial architectural documents.

Outcomes:

1. Solve problems using critical thinking and creativity
2. Upon successful completion of the course, the student will be able to: use definite criteria to design and draw architectural documents.
3. Identify current construction techniques, materials used, and structural systems used in commercial construction.
4. Use CAD software to generate the drawings for the construction of commercial facilities.
5. Use large format printers and electronic publishing of drawings.

Course Objectives: Each student will compile a set of working drawings that demonstrates their abilities within the field of drafting for commercial architecture.

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:

- 10% Quizzes and Homework
- 15% Existing Building Documentation
- 25% Tests
- 15% DD Package
- 35% CD Package

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: Fundamentals of Building Construction, by Edward Allen and Joseph Iano

Equipment and Supplies Needed Per Student:

- 45 deg triangle
- 30/60 deg triangle
- Architect Scale
- Engineer Scale
- .5 mm mechanical pencil (Good quality with metal tip to use with triangles)
- Eraser
- USB storage drive (1gig or bigger)
- Red pens
- Blue pens
- Yellow highlighters

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. 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>Subject</u> | <u>Chapter</u> |
|--------------|--|----------------|
| #1 | Syllabus and Intro | |
| | The Building Process | Ch. 1 |
| | Drawing Existing Buildings | |
| #2 | Definition of Documents by Phase | |
| | Building Codes Interpretation | Ch. 1 |
| #3 | (SD) Sketching For Architects | |
| | Drawing Graphics | |
| | Drawing Standards | |
| #4 | (DD) Floor Plans | |
| | (DD) Elevations | |
| #5 | Brick Masonry | Ch. 8 |
| | Masonry Load Bearing Wall Construction | Ch. 10 |
| #6 | Test #1 | |
| | Steel Frame Construction | Ch. 11 |
| | (CD) Enlarged Toilet Plans | |
| | (CD) Reflected Ceiling Plan | |
| | Light Gauge Steel Frame Construction | Ch. 12 |
| #7 | Concrete Construction | Ch. 13 |
| | (CD) Wall Sections | |
| | (CD) Wall Section Details | |
| #8 | Test #2 / DD Package Due | |
| #9 | Roofing | Ch. 16 |
| #10 | (CD) Roof Plan | |
| #11 | Glass and Glazing | Ch. 17 |
| | Windows and Doors | Ch. 18 |
| | (CD) Door and Window Types/Schedules | |
| #12 | Test #3 | |
| #13 | (CD) Casework Elevations | |
| | (CD) Room Finish Schedules | |
| | (CD) Reflected Ceiling Plan | |
| #14 | Designing Cladding Systems | Ch. 19 |
| | Cladding with Masonry and Concrete | Ch. 20 |
| #15 | Foundations | Ch. 2 |
| | Stone and Concrete Masonry | Ch. 9 |
| #16 (Finals) | 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