COURSE NUMBER & TITLE:  ENTK 1510, 01 - Drafting I

SEMESTER/YEAR:  Fall 2006

LECTURE HOURS: 2   LAB HOURS: 4   CREDIT HOURS: 4

CLASS TIME:  1:00-3:50 PM   DAYS: TTH   ROOM: EI-116

INSTRUCTOR'S NAME:  Hank Reifke

INSTRUCTOR'S CONTACT INFORMATION:

    Office Location:  EI 112
    Office Phone:  268-2529 w/voice mail
    Email:  hreifke@caspercollege.edu

OFFICE HOURS:  MTW 12-12:50 PM
               T 4-5:50 PM
               TH 4-4:50 PM

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. (Cross listed as EDIE 2020.)

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:  Upon completion of this course, students will be able to:

1. demonstrate the basic steps of sketching, with and without the use of grid paper to produce orthographic, isometric and oblique drawings.
2. demonstrate the ability to center orthographic, isometric and oblique drawings
3. demonstrate the ability to completely dimension working drawings and pictorial drawings using the latest approved ANSI dimensioning standards.
4. demonstrate the ability to produce basic Orthographic drawings on CAD system utilizing paper and model space and plotting to a acceptable standardized scale
5. demonstrate the ability to utilize Architectural, Metric, and Engineers scale to enlarge and reduce drawings on both the board and CAD
6. demonstrate the ability to produce drafting industry acceptable board and CAD working drawings to include general and specific notes
METHODOLOGY: Students will be given daily lectures 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 and offered on a Monday through Friday basis.

EVALUATION CRITERIA:
Final grades will be based upon class assignments, tests, and participation according to the following percentages:

- 40% Tests (Unit/Chapter tests & final)
- 40% Daily Work Drawing Plates
- 20% Participation (attendance, class assignments and homework in by the beginning of next class)

Grade Scale:
100-90 = A, 89-80 = B, 79-70 = C, 69-60 = D, 59-0 = F

REQUIRED TEXT, READINGS, AND MATERIALS:
- Workbook for *Engineering, Drawing, and Design*.
- **Equipment and Supplies Needed Per Student:**
  - Furnished by the student:
    - 45 degree and 30 degree -60 degree triangles
    - metric, architect’s and civil engineer’s scales
    - drafting instruments, irregular curve,
    - protractor
    - erasing shield
    - art gum and Mars plastic erasers
    - 0.3, 0.5, 0.7 mm 2H mechanical, 9H wood drafting pencils
    - drafting tape
    - pencil pointer
    - draftsmen’s dry cleaning pad
    - Ames lettering guide
    - dusting brush
    - a circle template
    - 6” bow compass
    - Isometric Ellipsas Template #123
    - USB Jump Drive (64 MB storage device or larger)

CLASS POLICIES:
- Outside chapter readings will be assigned on a regular basis.
- Late assignments will not receive full credit, 10% or 1 grade for every period late. After four classes, assignment will not receive over 50% or U.
- Assignments turned in after class is over should be placed in box outside instructor’s office door.
- Assignments returned for correction must be stapled to corrected assignments to be considered.
- Assignments turned in after assignments returned to class will not be graded.
- Participation is expected, and will be taken into account when grading.
- Students missing 5 classes (15 hours) will be given the choice of taking an “F” for the class, changing to an audit and continue to participate, or withdrawing from class.
- Students late to class more than 10 minutes are considered an absence.
CLASS POLICIES: continued
- There will be **NO** makeup tests given. This also applies to pop quizzes.
- Casper College demands intellectual honesty. Proven cheating, plagiarism, or any form of dishonesty can result in the offender failing the course or being expelled from school.
- No CD and headphones in class/lab.
- Cell phone off or on vibrate. (Use them outside the classroom)

_Last date to change to Audit Status or to Withdraw with a W Grade:_
Please refer to the current Casper College Catalog – November 3, 2006

SAFETY: Personal and equipment safety standards will be strictly enforced. It is the individual’s responsibility to develop a safe work attitude.

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 in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

*Academic Dishonesty- Cheating and 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.

*ADA Accommodations Policy:* It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience.
CALENDAR OR SCHEDULE INDICATING COURSE CONTENT:

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