CASPER COLLEGE COURSE SYLLABUS
ENTK 2550-01 Civil Drafting Technology

Semester/Year: Fall 2006

Lecture Hours: 2 Lab Hours: 4 Credit Hours: 4

Class Time: 9:00 – 11:50 a.m. Days: TTH Room: EI 105

Instructor’s Name: Jason Eggemeyer

Instructor's Contact Information Office Phone: 268-2409 Email: jeggemeyer@caspercollege.edu

Office Hours: MW 12:00-1:00 p.m., TTH 12:00-3:00 p.m.

Course Description: Civil Drafting/ Land Development introduces principles and techniques of civil drafting using AutoDesk’s Land Development Desktop to create Engineering Maps. This course includes an overview of mapping, surveying and earthwork.

Statement of Prerequisites: ENTK 2505 CAD II, or permission of instructor

Goal: For each student to be competent in creating, manipulating and using AEC Points and Surfaces, Engineering Maps and Land Development Desktop.

Outcomes:

- Generate Land Survey drawings using surveyor coordinates and field notes
- Generate working drawings and have basic knowledge and understanding of site/drainage principles
- Understand and demonstrate use of Plan and Profile
- Understand and recognize typical computer graphics and terminology used to generate civil engineering drawings
- Calculate and convert Azimuths and bearings
- Understand and demonstrate use of conventional lot/block numbering system

Methodology: Students receive approximately 2 hrs/week of lecture with the remaining 4 hrs/week to complete assignments in a supervised lab experience.
Evaluation Criteria:
- Drawings, projects, and quizzes worth 60% of final grade. Each drawing, assignment or project will be weighted differently based on required time to complete and complexity (i.e. final project is worth 5X).
- Test average worth 40% of final grade
- All class work is to be saved and compiled in a working portfolio to be submitted at the end of the semester for a grade to be included as a project.
- Late assignments will be reduced by 10 points per day that the assignment is late.

Attendance is required. In the case of an excused absence, 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.

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

Required Text, Readings, and Materials:
min 64 MB USB Flash Memory Drive, engineering scale and red, blue, and black felt tip pens

Class Policies: Students missing 5 classes of more will be given the choice of taking an “F” for the class, changing to an audit and continuing to participate, or withdrawing from the class.
Last date to change to audit status or to withdraw with a W Grade: refer to the current Casper College catalog

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 & 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.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>SUBJECT</th>
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| #1   | Introduction & Syllabus  
      | What are Maps? |
| #2   | AutoCAD Basics  
      | Layers and File Management  
      | Mapping Scales  
      | Mapping Symbols |
| #3   | Measuring Distance and Elevation  
      | Setting AEC Points in LDD |
| #4   | Surveying Fundamentals  
      | Importing and Exporting AEC Points |
| #5   | Azimuth and Bearing  
      | Test #1  
      | Lines and Curves, Labeling |
| #6   | Line and Curve Tables/Point Labeling  
      | Lot Computations |
| #7   | Legal Descriptions  
      | Plot Plans |
| #8   | Creating a Surface  
      | Faults and Break lines |
| #9   | Contour Lines  
      | Creating Contour Lines from Data |
| #10  | Contour Labeling and Editing  
      | Scanning Topographic Maps  
      | Cross Sections |
| #11  | LDD Cross Sections |
| #12  | Earth Work Volumes  
      | Alignments  
      | Test #2 |
| #13-16 | Grading Project  
      | Final Project & Portfolio Due Last Day of Class |

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

**TAKE NOTES**

SCHEDULE SUBJECT TO CHANGE