COURSE SYLLABUS  
DFTG - 2321  
Topographical Drafting  
Spring, 2009

CATALOG DESCRIPTION:
Plotting of surveyor’s field notes. Includes drawing elevations, contour lines, plan and profiles, laying out traverses, interpreting survey data and topographic symbols, and producing topographical drawings.

Pre-requisite:  DFTG 1309; ENGL 0305 or 0316 and ENGL 0307 or 0326

CREDIT 3 hours

ADA STATEMENT:
NHMCCD is dedicated to providing the least restrictive learning environment for all students. The college district promotes equity in academic access through the implementation of reasonable accommodations as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA) which will enable students with disabilities to participate in and benefit from all post-secondary educational programs and activities. If you require reasonable accommodations because of a physical, mental, or learning disability, please notify the instructor of this course within the first two weeks of the term.

INSTRUCTOR:
George E. Griffith, RPLS
Office:  By Appointment (Adjunct)

Phone:  832-259-0176
Email:  g_griff@yahoo.com

SEMESTER/TIME/LOCATION:
   Spring, 2008, Thursday:  6:00 pm. to 8:50 pm.
   Room:  F 333

OFFICE HOURS:  BY appointment
LEARNING OUTCOMES:
- Utilization of data collector and survey total stations
- Develop and utilize problem solving skills, time management, planning, organizational skills and teamwork communication with fellow students
- General review of mapping (Texas surveying and the B.L.M. 1973 Manual of Surveying)
- Process and reduce survey data gathered using the equipment and hardware of the profession
- Mapping projects including topographic survey, plotting of a survey traverse
- Plotting plan profile and alignment sheets

COURSE OBJECTIVES:
On completion of this course the surveying student will be able to demonstrate competency in the following areas:
1. Explain the meaning of a number of common terms used in surveying and mapping.
2. Discussion of various C.A.D. mapping programs
3. Utilize horizontal and vertical references
4. Prepare and apply the use of survey field notes
5. Utilize plan profile sheets for construction design
6. Construct alignment sheets for construction design
7. General land development project using survey field notes
8. Construct a topographic map utilizing horizontal and vertical values
9. Review and discuss mapping procedures with a class project including survey field procedures, note reduction and plotting.

SURVEY SUPERVISION:
Students enrolled in this course will receive classroom instruction from a Texas Registered Professional Land Surveyor.

METHODS OF INSTRUCTION:
Familiarization with examinations, procedures and evaluation will occur through explanation, observation, group discussions in class, demonstration, guided practice, research and evaluation. Additional methods designed for remediation or enrichment may be individually tailored as needed.

TEXTBOOK:
- MicroSurvey CAD 2008 mapping program

RECOMMENDED RESOURCE MATERIALS:

Definitions of Surveying and Associated Terms; [http://www.acsm.net/newdefinitions.html](http://www.acsm.net/newdefinitions.html)
Quad maps,- [http://www.tnris.state.tx.us/datadownload/county.jsp](http://www.tnris.state.tx.us/datadownload/county.jsp)
CALCULATION OF GRADES:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Two Major Examinations</td>
<td>40%</td>
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<tr>
<td>Final Examination</td>
<td>25%</td>
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<tr>
<td>Quizzes, notebook and homework</td>
<td>20%</td>
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<tr>
<td>Class Attendance and out of class project</td>
<td>15%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
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Grade Assignment:

- 90 - 100: A
- 80 – 89: B
- 70 – 79: C
- 60 – 69: D
- Less than 69: F

ATTENDANCE AND TARDINESS:

Your success in this course will be the direct result of your attendance for each class and your participation throughout the course. We will meet a total of fifteen (15) times and each student is responsible for gathering class information if missing a class. Each class will begin promptly at 6:00 p.m. on Thursday evenings.

NO LONGER ATTENDING OR PARTICIPATING IN THIS CLASS DOES NOT CONSTITUTE WITHDRAWAL FROM THIS COURSE, NOR DOES THE STUDENT’S NOTIFICATION TO THE INSTRUCTOR THAT THE STUDENT WISHES TO BE DROPPED. IT IS THE STUDENT’S RESPONSIBILITY TO FILL OUT A “SCHEDULE CHANGE FORM” TO OFFICIALLY DROP THIS CLASS. FAILURE TO DO SO MAY RESULT IN THE GRADE OF “F”.

CELL PHONES:

The use of cell phones in the classroom is strictly prohibited. Cell phones MUST either be turned off or silenced during class. If it is absolutely necessary to answer a call during class, you must leave the classroom before answering the call. Checking a cell phone for any reason during an exam could result in the exam paper being confiscated by the professor.

MAKEUP POLICY FOR EXAMS OR QUIZZES:

There will be no make up for missed quizzes, in-class assignments or homework. If for any reason you are unable to attend a class it is your responsibility to notify the instructor and make up class assignments that might be missed. Each student should make a note that it is possible to make up an exam, however, the daily quizzes and Final Exam will not be made up. The final exam MUST be taken on the assigned date and time.
ACADEMIC INTEGRITY
The following information is taken directly from the 2007-2008 NHMCCD Catalog, page 52, concerning academic integrity:

The district upholds the core values of learning: honesty, respect, fairness, and accountability. The district promotes the importance of personal and academic honesty. The district embraces the belief that all learners, students, faculty, staff and administrators will act with integrity and honesty and must produce their own work and give appropriate credit to the work of others. Fabrication of sources, cheating or unauthorized collaboration is not permitted on any work submitted within the district.

Consequences for academic dishonesty determined by the professor, or the professor and academic dean, or the professor and chief student services officer can include but are not limited to:

1. Having additional class requirements imposed;
2. Receiving a grade of zero or “F” for an exam or assignment;
3. Receiving a grade of “F” for the course;
4. Being expelled from the college district;

Professors should clearly explain how the student’s actions violated the academic integrity policy, how a grade was calculated, and the actions taken.

SUGGESTED SUPPLIES:
- Surveyors Field Book
- Electronic Calculator * (Suggested: TI-30Xa or comparable, approx. $12.00)
- Engineer’s Scale
- Triangles, 30°, 45°
- 360° Protractor
Alterations in Syllabi:
If the need arises, information in this syllabus may be altered by the instructor. Students will be given sufficient notice of any changes.

Calendar for Spring, 2009  (Calendar could be subject to change at discretion of instructor)

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>1/15/09</td>
<td>Course Introduction, syllabus, class policies, CAD and land surveying</td>
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<tr>
<td>2</td>
<td>1/22/09</td>
<td>Mapping history; Definitions, terms, symbols;</td>
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<td>3</td>
<td>1/29/09</td>
<td>U.S. Quadrangle maps, GLO, Preparation for surveys</td>
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<td>4</td>
<td>2/5/09</td>
<td>Field exercise data collection of topographic features</td>
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<td>5</td>
<td>2/12/09</td>
<td>Download data; plotting</td>
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<td>6</td>
<td>2/19/09</td>
<td>Exam 1</td>
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<tr>
<td>7</td>
<td>2/26/09</td>
<td>Design and construction; Plan profile</td>
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<td>8</td>
<td>3/5/09</td>
<td>Design and construction; Alignment sheets</td>
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<td>9</td>
<td>3/12/09</td>
<td>Mid-Semester Break</td>
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<tr>
<td>10</td>
<td>3/19/09</td>
<td>Design and construction; As Built drawings</td>
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<td>11</td>
<td>3/26/09</td>
<td>Exam 2</td>
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<td>12</td>
<td>4/2/09</td>
<td>Land Development - Topographic mapping and contouring</td>
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<td>13</td>
<td>4/9/09</td>
<td>Land Development - Street and drainage</td>
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<td>14</td>
<td>4/16/09</td>
<td>Land Development - Utilities</td>
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<td>15</td>
<td>4/23/09</td>
<td>Land Development - Platting for recordation</td>
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<td>16</td>
<td>4/30/09</td>
<td>Course Review</td>
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<td>5/7/09</td>
<td>Final Exam (5:30 pm to 7:20 pm)</td>
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