Course Syllabus Surveying 2335 Fall 2012

Department: **Surveying**

Course : **Srvy 2335, 7245 Lecture/Lab Geodetic Surveying**

Start Date 8/27/2012

End Date 12/11/2012

Modality: Lecture/lab Face to Face

Credits: 3

Corequisites concurrent enrollment in Surveying 2335

ICO's 1, 2, 3

Instructor: **Paul A. Wilson**

OC email: pwilson@odessa.edu

OC Phone **(432) 335-6494**

Course Description: Lecture

Upon Successful completion of this course, the student will be able to:
Establish geodetic position for a control point and azimuth and
Transform to Texas State Plane Coordinates
Establish Azimuth by Polaris Observation
Determine magnetic declination for Control Point
Prepare a report on process

Academic Ethics: Students are expected to do their own work on assignments and take tests without outside assistance. If unethical behavior is detected, by Odessa College Policy, all parties may either be denied credit for the project, or, at the instructor's discretion, the student may be dropped from the course. A report will be made by the chairman for further action as deemed necessary by the department chair.

Required Readings/Materials **Elementary Surveying,** Ghilani, Wolf, 13th edition, ISBN 9780132554343
Texas Instruments -30 calculator is the only calculator to be used in this class
Engineer's scale, protractor and graph Paper (scalable grid)
Thumb Drive at least 1 gig
Other materials as assigned
High speed internet connection and up-to-date computer

Course Requirements (Lectures, Assignments and assessments)
1. Take All Tests
2. Complete all homework assignments on time

3. Weekly participation in discussion groups
4. Every student will be required to prepare a presentation PowerPoint and video on a topic to be assigned
5. Missed classes will be made up with appropriate assignments

Grading Policy:		
	4 multi-chapter tests , lowest dropped	40%
	Final Exam, subject matter taken from above tests	20%
	Class Discussion Participation	20%
	Weekly Assignments	20%

Class Schedule by Week (Subject to Change)

1.	Overview and Introductions. Chap 19 Elementary Surveying	
2.	Map Projections	
3	GPS Surveying Intro and Intro Aerial Mapping Chap 13, 14	
4.	Aerial Photography (Chap 27) and Caltrans	Test 1-4
5.	Astronomic Observations Basic Astronomy Appendix C Elementary Surveying	
6.	Astronomic Observations Methods	
7.	Historic Use Astronomic Observation (History of the Rectangular System)	
8.	Triangulation	Test 5-8
9.	Use of GPS in Establishing Project Control	
10.	Use of GPS in Establishing Project Control, contd.	
11.	Special Issues in Geodetic Surveying	
12.	Special Issues in Geodetic Surveying	Test 9-12
13.	Special Issues in Geodetic Surveying	
14	Geographic Information System Intro	
15.	Geographic Information System, contd.	
16.	Review	Test 9-16