

Course Syllabus Surveying 1309 Fall 2012

Department: **Surveying**

Course : **Srvy 1309, 8715 WB Surveying Calculations**

Start Date 8/27/2012

End Date 12/11/2012

Modality: Web Based

Credits: 3

Corequisites concurrent enrollment in Surveying 1301 and Surveying 1309

ICO's 1, 2, 3, 4

Instructor: **Paul A. Wilson**

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

Course Description: Lecture and Lab

Upon Successful completion of this course, the student will demonstrate:
Ability to correctly set up and use Surveying field equipment
Ability to keep adequate field records
Ability to plan and execute level loop, traverse and boundary survey
Ability to make an acceptable field sketch

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

1. Pacing, Chaining and Taping for Distance Measurement
2. Identify and set up different types of Surveying Instruments
3. Laying out Building Corners with Two Tapes
4. Area Calculations by Chaining (Test 1-4)
5. Levelling and Fieldbook
6. Levelling and Fieldbook
7. Slope and Elevation
8. Total Station use(Test 5-8)
9. Slope and Elevation
10. Traverse with Total Station
11. Traverse procedures and calculations II
12. Horizontal Curves (Test 9-12)
13. Vertical Curves
14. Boundary Survey,
15. Field Sketch of Building (Test 13-15)
16. Review