

Course Syllabus

Department: **Surveying**

Course : **Srvy 1335, 8735 7135 Land Surveying Applications**
Srvy 1341 8740 613 Land Surveying

Start Date 8/27/2012

End Date 12/11/2012

Modality: Face-to-face

Credits: 3,3

Prerequisites Successful completion of Survey 1301, 1309 and 1315

ICO's 1,2,3

Instructor: Paul A. Wilson

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OC Phone (432) 335-6494

Course Description: Lecture/Lab

A continuation of the introductory triad, 1335 and 1341 are designed to give students a more in-depth understanding of the issues in Land Surveying. Emphasis will be placed on the basic mathematics of surveying and field procedures. Guided hands-on experience will be required for field drawings, use of levels and total stations, GPS data acquisition and processing, correct use of field books, planning and executing survey jobs, job safety, measurement techniques and other basic job skills. Students who pass this course will have experience in the following types of surveys: Boundary, topographic, elevation certificates, control, boundary research including deed research. Students will be taught the differences and similarities between U.S. Rectangular Survey System and the Texas Survey System. Preparing for the NCEES FS exam is emphasized.

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**, Wolff, Ghilani, 13th edition, ISBN 9780132554343
Texas Instruments -30 calculator

HP 33 or 35 (optional)
Engineer's scale, protractor and graph Paper
Thumb Drive at least 1 gig
Other materials as assigned

Course Requirements (Lectures, Assignments and assessments)

1. Take All Tests
2. Complete all homework assignments on time
3. Every student will be required to make a live presentation in class on a topic to be assigned
4. Missed classes will be made up with appropriate assignments

Class Schedule by Week

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|-----|---|------------------|
| 1. | Welcome back, review of math and procedures | |
| 2. | Field Book | |
| 3. | Levelling | |
| 4. | Total Station Management with data collector | Test Weeks 1-4 |
| 5. | Total Station Management with data collector | |
| 6. | Establishing Project Control | |
| 7. | Field Drawings | |
| 8. | Traverse by Compass and Chain | Test Weeks 1-8 |
| 9. | Traverse with Total Station | |
| 10. | Traverse Mathematics Review | |
| 11. | Topographic Surveying | |
| 12. | Totographic Surveying Use of GPS in Survey Control | Test Weeks 9-12 |
| 13. | Use of GPS in Survey Control Reading Construction Documents | |
| 14. | Reading Construction Documents | |
| 15. | Reading Construction Documents | |
| 16. | Finish Projects and review | Test Weeks 12-16 |