

Course Syllabus Surveying 1315 Spring 2013

Department: Surveying

Course : Srvy 1315, 8725 Surveying Calculations

Start Date 01/22/13

End Date 05/17/13

Modality: Lecture

Credits: 3

Corequisites concurrent enrollment in Surveying 1301 and Surveying 1309

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:

- Calculate Area and Volume
- Convert Units of Measurement
- Solve for Oblique and Right Triangles
- Compute traverse closures and Areas
- Calculate and Stake a Horizontal Curve
- Calculate Staking Instructions Based on Coordinate Information

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

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| 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 revision)

1. Units of Measurement and Conversion, Areas and Volume
2. Angular Measurement and Calculations
3. Right Triangles: offsets, Slope and Elevation
4. Oblique Triangles (Test 1-4)
5. Oblique Triangles II
6. Bearings, Angles and Azimuth
7. Bearings, Angles and Azimuth II
8. Coordinate Geometry (Test 5-8)
9. Coordinate Geometry II
10. Traverse Procedures and Calculations
11. Traverse procedures and calculations II , Boundary Surveying
12. Slope, Elevation and Stationing (Test 9-12)
13. Horizontal Curves I
14. Horizontal Curves II, Vertical Curves (Test 13-14)
15. Review
16. Review

The SEI process for face-to-face and online courses is scheduled for the week of November 26th