Course Syllabus Surveying 1315 Fall 2012

Department: Surveying

Course: Srvy 1315, 8730 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

Instructor: Paul A. Wilson

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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

Grading Policy: 4 multi-chapter tests, lowest dropped 40%

Final Exam, subject matter taken from above tests
Class Discussion Participation
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