**PTAC 2336**
**Process Instrumentation II**

**Western Texas College**

I. Basic Course Information
   A. Study of the instruments and control systems used in the process industry including terminology, process variables, symbology, control loops, and basic troubleshooting
II. Student Learning Outcomes
   A. Utilize advanced instrumentation principles and theories in process systems
   B. Describe a distributed control system and the various types of interlocks.
III. Major Course Requirements
   A. Lab Attendance / Participation
   B. Final Exam
IV. Information on Books and Other Course Materials
   A. none
V. Other Policies, Procedures and Important Dates are available in the Catalog.
VI. Course Organization and Schedule
   A. Weekly Schedule (subject to change)

| | |
|---|---|
| Week 1 | Introduction to Process Control |
| Week 2 | Instrument Tags |
| Week 3 | Piping and Instrumentation Diagrams |
| Week 4 | Test 1 |
| Week 5 | Loop Controllers |
| Week 6 | Test 2 |
| Week 7 | Final Control Elements |
| Week 8 | Level Measurement |
| Week 9 | Liquid Level Control |
| Week 10 | Test 3 |
| Week 11 | Methods of Automatic Control |
| Week 12 | Basic Flow Measurement and Control |
| Week 13 | Control Loop Performance |
| Week 14 | Test 4 |
| Week 15 | Final Review |
| Week 16 | Finals |

VII. Grading (subject to change)

A. Class / Lab Assignments.....50%
B. Lab Participation.....20%
C. Test (s).....20%
D. Attendance.....10%

Last Modified: September 19, 2017