

**ELMT 1301**  
**Programmable Logic Controllers**

**Western Texas College**

- I. Basic Course Information
  - A. An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic and interfacing of equipment
- II. Student Learning Outcomes
  - A. Explain terminology
  - B. Select hardware components
  - C. Predict PLC operation based on ladder logic diagram
  - D. Program a PLC to perform various control functions
- III. Major Course Requirements
  - A. Homework
  - B. Lab participation / attendance
  - C. Quizzes / Test / Final Exam
- IV. Information on Books and Other Course Materials
  - A. NA
- V. Other Policies, Procedures and Important Dates
  - A. Please refer to the WTC Course [Catalog](#)
- VI. Course Organization and Schedule - Disclaimer: Schedule and content is subject to change at the instructor's discretion
- VII. Grading - All material must be turned in prior to the week of finals; **Written work will not be accepted week of finals.**

Homework	40%
Lab	30%
Test (2)	20% (10% each)
Attendance	10%

- VIII. Disclaimer: Grading percentages subject to change at the instructor's discretion.