

**ELPT 2319 -- PLC 1 Syllabus  
Fall Semester 2015**

**Course Information**

ELPT 2319 Programmable Logic Controllers 1

Meet on the assigned **Eve.** from **6:30 Pm -- 10:00 PM**

Prerequisites: *None*

*Spring Break March 9<sup>th</sup> – 13<sup>th</sup>; Last day to withdraw - March 27; Midterm ~ March; Final grades due by May 6<sup>th</sup>*

**Instructor Information**

Terry Brooks – Computer and Communications Department Dow Pipeline

**Mobil:** 281-381-2643 –( text accepted )

Associates of Applied Science  
State Master Electrician License  
Certified NCCER Instructor  
TASO official

**Course Description**

***ELPT 2319 Programmable Logic Controllers I.***

CIP 4603010008

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls. (3 SCH, 2 lecture, 2 lab)

**Course Objectives**

Become familiar, comfortable, and knowledgeable with PLC hardware and software. Understand the PLC principles of operation by developing logic problems and demonstrating a knowledge of how the logic program affects the inputs and outputs attached to the PLC. Understand numbering systems with respect to PLC memory layout. Demonstrate acquired knowledge by performing hands-on programming task. Learn how to manipulate inputs and outputs to aid in troubleshooting problems. Work with a variety of logic instructions and understand how they operate within the logic.

**Textbooks/ Reading /Materials**

“Required course materials are available at the Brazosport College bookstore, on campus or online at <http://www.brazosport.edu/bookstore>. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer.”

No textbooks required

Internet access

Calculator, note pad, pen or pencil

**STUDENTS WITH DISABILITIES**

BC is committed to providing equal education opportunities to every student. BC offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Phil Robertson, Special Populations Counselor, 979-230-3236 for further information.

## Student expectations

- Arrive early or on time
- Leave late or when class is officially dismissed
- Be prepared to take notes
- Complete assignments
- Ask questions either during class or after class
- Making up assignments are the responsibility of the student
- No swearing or cursing allowed

## ACADEMIC HONESTY

BC assumes that students eligible to perform on the college level are familiar with

The ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the BC Guide for more information, this is available online at <http://www.brazosport.edu>, click on the link on the left side of the homepage.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and may, at a minimum, result in \_\_\_\_C\_\_\_\_ in this course. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

## Course Policies

Stay until dismissed

Three absences reduces final grade by 1 letter

Four unexcused absences reduces grade by 1 letter

Make up any quizzes, exams, or assignments

Withdrawal from class is the responsibility of the student

All cell phones or other electronic devices need to be silenced in class.

**Grading:**                15% Attendance \*  
                              20% Mid term exam  
                              25% Quizzes  
                              25% Final exam  
                              15% Participation  
                              **100% Final letter grade**

## Resources

Brazosport College library On site and electronic

Free PLC Simulation Program --

Allen Bradley PLC's -- <http://www.ab.com/products.html>

Siemens PLC's --

Free Training Products --

Siemens Training <http://www.awc-corp.com/>

**Tip: Be patient with yourself and those around you. We all have different qualities and talents. I view them as equally important: e.g.: organized, quick learner, remembers well, motivated, etc. Use your specific talents or skills to the best of your ability to be successful in this course.**