



COURSE SYLLABUS FOR

PROGRAMMABLE LOGIC CONTROLLERS

ELPT 2419

INSTRUCTOR: Danny Bailey Office Phone: 335-6832 Cell Phone: 352-9030 Office Hours: As Posted

COURSE NUMBER: CETT 1409

CREDIT HOURS: 4 (3/3)

PREREQUISITE: NONE

CATALOGUE DESCRIPTION: Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls. (SCANS 3,5,8,9)

TEXTBOOK: GEFanuc Software

LEARNING OUTCOMES:

- Identify and describe digital logic circuits and explain numbering systems
- explain the operation of programmable logic controllers
- convert ladder diagrams into programs; incorporate timers and counters utilizing programmable logic controllers
- execute and evaluate programs.

COURSE REQUIREMENTS:

- Complete all scheduled homework
- Complete all scheduled labs
- Complete written\lab tests
- Complete a written\lab final test

METHODS OF EVALUATION:

GRADING SCALE	
POINTS	GRADE
90-100	A
80-89	B
70-79	C
65-69	D
0-64	F

WEIGHT OF COURSE REQUIREMENTS	
AREA	GRADE WEIGHT
LAB ASSIGNMENTS	25%
TESTS	25%
FINAL TEST	25%
PROFESSIONALISM	25%
TOTAL	100%

ATTENDANCE POLICY\PROFESSIONALISM POLICY

Attendance is the greatest predictor of your success. Your attendance at EVERY ONE of the classes and labs is important and expected. A substantial grade penalty will be assessed to late work; including homework, lab assignments, and test. The "Professionalism Grade" will be determined by such factors as attendance, tardiness, class participation, and other classroom factors.

PROGRAMMABLE LOGIC CONTROLLERS

SYLLABUS CHART

Item(Name)	Type	Description	Due
1	Discussion	Safety	TBA
2	Discussion\Quiz\Lab	N.O. & N.C.	TBA
3	Discussion\Quiz\Lab	Timers	TBA
4	Discussion\Quiz\Lab	Counters	TBA
5	TEST		TBA
6	Discussion\Quiz\Lab	Interface Techniques	TBA
7	Discussion\Quiz\Lab	Programming Techniques	TBA
8	Discussion\Quiz\Lab	Data Instructions	TBA
9	TEST		TBA
10	Discussion\Quiz\Lab	Crossover Programming	TBA
11	Discussion\Quiz\Lab	Data Aquisition	TBA
12	Discussion\Quiz\Lab	Motor Programming	TBA
13	Discussion\Quiz\Lab	Numbers, Bits, Bytes	TBA
14	Final Test		TBA

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the "Ask a Librarian " service provide additional help.

Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal

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Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).