DMACC
DES MOINES AREA
COMMUNITY COLLEGE
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http://www.dmacc.edu

Campus Name: Ankeny

Course Title: Programmable Logic Controllers

Course Number: ELT 123

Section Number & CRN: Sec 1 / 15359

Instructor Information	
Name	Steven Distler
E-mail Address	srdistler@dmacc.edu DistlerStevenR@JohnDeere.com
Phone Number	515-321-5546
Fax Number	NA
Office Location	Building 3 teacher lounge
Office Hours	Email, call, or set something up after class
Instructor Introduction	I work on only on Thursday nights if you need to make up quizzes or exams. Otherwise call or email and we can set something up.
Instructor Web Page Address	
Blackboard	https://secure.dmacc.edu/myonlinelearning/login.aspx

Course Information	
Semester & Year	Fall 2015
Date Syllabus Created and/or Revised	8-21-2015
Days & Time & Location	Thursday nights Building 3 Room 40 Ankeny Campus
Course Description & Credits	http://www.dmacc.edu/courses/crsrod.asp
Prerequisites	None
Course Competencies	https://go.dmacc.edu/competencies
Course Overview	PLC operation and programming techniques to include relay logic, timers, counters, sequencers, discrete I/O, analog I/O, networking, remote I/O, workstations, advanced programming techniques and interfacing with personal computers.
Study Tips	Read, do the homework, study for the tests
How the Course Fits into the Curriculum	This course introduces the student to PLC's and the components that they can control. Understanding prints and controls that interact with a whole range of devices and equipment.

Textbooks & Materials	
Required Textbooks & ISBN	Mc Graw-Hill Publishers – Programmable Logic Controllers ISBN 978-0-0735-1088-0
Required Materials	Book and CD Software
Optional or Recommended Books/Materials	Calculator and Notebook
Software Applications	LogixPro 500 PLC Simulator

Software Notice	"All the software used in this class is copyrighted; therefore, it is not for distribution, copying, or personal use. This software is the property of Des Moines Area Community College."
Course Policies	
Attendance	Attendance will be taken every class. Attendance is a factor in the courses grades. Failure to make-up assignments within a week from when they were due shall be grounds for 0% grade of that assignment. **If you are absent 4 or more classes** you will lose a letter grade or more.
Grading Criteria	Your grade for the course is based on homework, tests, labs, and quizzes. Homework will be worth 15% of the grade. Quizzes will be worth 15% of the grade. Tests will be worth 40% of the grade and hands-on labs will be worth 30% of the grade. Good class participation is worth an extra 5pts on top of your grade. Therefore, being here for the full class time will help your grade. Missing quizzes will hurt your grade. The final letter grades will be assigned based on the ranges: **A** =90 to 100 % **B** =80 to <90% **C** =70 to <80 % **D** =60 to <70 % Below 60 % is an **F** The ranges may be lowered to your benefit, but will not be increased.

Classroom Conduct	https://go.dmacc.edu/handbook Weapons are not to be brought on campus. Loud or profane language, threats and or any type of violence or behavior that disrupts the educational environment is unacceptable and shall be dealt with according to DMACC Board Policy CM 1001, 2021. All students have a right to learn in a nonthreatening environment. Behavior that jeopardizes this right will not be tolerated. Cell phones shall not be used in the classroom. They disrupt the learning process. **Please turn off your cell phone's ringer prior to class.** If you need to text or make a phone call please do so when you have a break. If you have an emergency call, please have the caller contact the general ATC number: 964-6288, or Campus Security: 964-6500, and you will be contacted by them. Pagers should also be turned off so as not to disrupt the class. Please note: All campus computers can be monitored, class computer content can be projected onto the main screens in each room. So please keep the personal use to a minimum while the class is in session.
Missed Exams	You should notify me of your absence prior to the regular schedule testing time. Missing exams that are not made up within 1 day will result in a 5% deduction, and two or more days (not to exceed 7 days), will result in a 10% deduction. Any exam not made up before 7 days late, will **not** be counted. **Quizzes cannot be made up and the resulting quiz grade will be a zero**.
Late Assignments	Homework received a week late is worth 0% of the original value. Homework received the week of finals will not be accepted.
Extra Credit	Will be offered if a student requires it.
Study Expectations	1. DO THE ASSIGNED AND ANY SUGGESTED PROBLEMS 2. Talk to me before and any issue becomes a problem. 3. Form and use study groups. 4. Don't get behind; keep up with the reading & homework. Come prepared to think and actively participate in class.

Weather Policy	Individual circumstances such as health, childcare, rural roads, distance from the College, etc. can vary greatly among students and staff. It is always DMACC's goal to provide safe learning conditions, as well as provide the opportunity for students to attend classes when the vast majority is able to safely attend. The final decision to come to College can only be made by the individual student based on their specific extenuating circumstances that may make it unsafe for them to travel. During adverse weather, DMACC faculty is considerate of students who are unable to attend classes due to unique extenuating circumstances. Notification of Campus/College closures will be sent out through the DMACC RAVE Alert System, posted to the DMACC webpage at www.dmacc.edu, and where possible sent to the local media.
Class Cancellation Procedure	It is the responsibility of each faculty member to notify their students (in addition to their dean or provost) through some predetermined means if they are must postpone or cancel a specific class. If class is canceled I will inform you through email. I will not call. Notice will not be any less than 3 hours before class is to start.
Academic Dishonesty/Plagiarism	Academic integrity, based on the values of honesty, trust, fairness, respect, and responsibility, is a fundamental principle of scholarship at DMACC. DMACC's Academic Misconduct Policy (ES 4670) prohibits: plagiarism (using another person's writing or copying any work without proper citation), falsification, unauthorized collaboration during a test or on an exam, course or test. If you are to benefit from this class and be properly evaluated for your contributions, it is important for you to be familiar with and follow DMACC's Academic Misconduct policy. Students are encouraged to review DMACC's Academic Misconduct Policy on-line at https://go.dmacc.edu/handbook/polprocedures/pages/academicmisconduct.aspx or in the DMACC Student Handbook. Work that violates these values is incompatible with the goals of this class and will not be tolerated. Students who are found responsible for a violation of the Academic Misconduct Policy will receive an F failing grade for the test or assignments. Students have the right to appeal and may do so by following the procedures described in the Academic Misconduct policy. It is important for you to be familiar with and follow DMACC's Academic Misconduct policy. Students are encouraged to review DMACC's Academic Misconduct Policy on-line at https://go.dmacc.edu/handbook/polprocedures/pages/academicmisconduct.aspx or in the DMACC Student Handbook.
Course Specific (lab) Safety Procedures	Safety procedures will be discussed in class and used for every lab exercise.
DMACC Information	

Instructor Home Pages	http://www.dmacc.edu/instructors
Add/Drop Dates	https://go.dmacc.edu/registration/pages/add_drop.aspx
Refund Policy	https://go.dmacc.edu/registration/Pages/refund.aspx

Support Services

Services for Students with Disabilities	https://go.dmacc.edu/student_services/disabilities Any student with a documented disability who requires reasonable accommodation should contact the Disability Services Coordinator at **515-964-6850** or the counseling & advising office on any campus to apply for services.

Course Syllabus

DISCLAIMER: "This syllabus is representative of materials that will be covered in this class; it is not a contract between the student and the institution. It is subject to change without notice. Any potential exceptions to stated policies and requirements will be addressed on an individual basis, and only for reasons that meet specific requirements. If you have any problems related to this class, please feel free to discuss them with me."

NONDISCRIMINATION POLICY: Des Moines Area Community College shall not engage in or allow discrimination covered by law. This includes harassment based on race, color, national origin, creed, religion, sex (including pregnancy and marital status), sexual orientation, gender identity, age, disability and genetic information. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law. Individuals who believe they have been discriminated against may file a complaint through the College Discrimination Complaint Procedure (ES4645). Complaint forms may be obtained from the Campus Provost's office, the Academic Dean's office, the Judicial Officer, or the EEO/AA Officer, Human Resources. For Title IX questions and concerns contact 515-964-6850.

Students who wish additional information or assistance may refer to Student Services procedure ES 4645 located at https://go.dmacc.edu/student_services/int. Click Policies & Procedures.

Accommodations: The Program Development/Academic Support Services Director is the official Student Accommodation Officer/Section 504/ADA Coordinator for DMACC. The ADA Coordinator's office is located in Bldg. 6-10E on the Ankeny Campus and may be contacted by voice (515-964-6857). The ADA Coordinator is responsible for ensuring that the college complies with federal regulations that guarantee qualified students with disabilities equal access to all programs and services. Any student, faculty, or staff member may contact the ADA Coordinator's office for clarification of federal regulations, appeal of a grievance, or resolution of a disability-related problem.

Syllabus Addendum

To access additional information related to DMACC policies and procedures that impact the classroom (i.e. use of technology, weather-related cancellations, classroom conduct, etc.), the DMACC student handbook, registration information (including add/drop dates and refund dates), student service information (including counseling and advising), the DMACC academic calendar, and campus-specific resources (i.e. Academic Achievement Center, library, computer, labs, etc.), go to https://go.dmacc.edu/handbook and click "Syllabus Addendum" in the left navigation.

If you do not have access to a computer and need a printed version of any of the information described above, contact your instructor.

Course Schedule		
Week or Date	**Assignment**	**Due Date**
1	Chapter 1	
2	Chapter 2	
3	Chapter 3	
4	Chapter 4	