

ECET 3535 - Microprocessor Interfacing Class
Policies and Procedures
Fall 2023

INSTRUCTOR:	Dr. Anthony S. Pyzdrowski	CREDITS:	3
OFFICE:	EBE 324	OFFICE PHONE:	938-4510
OFFICE HOURS:	MW 1:30PM-3:00PM & TR 7:15AM-7:45AM & 10:45AM-11:30AM		
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I am the instructor of record for this class. Only the instructor of record can properly grade course work and issue midterm and final grades.

The posted time line for this course may need to be adjusted for University changes other unforeseen circumstances.

PREREQUISITES:
CET/EET 270 or ECET 2570

TEXT:
Jonathan W Valvano (2014). Embedded Systems: Introduction to Arm® Cortex™-M Microcontrollers, Fifth Edition (Volume 1) pdf download

Tiva™ TM4C123GH6PM Microcontroller Data Sheet pdf download

REQUIRED MATERIALS:

1. TI Tiva C LaunchPad EK-TM4C123GXL **is required** for laboratory activities as well as for applied out of class individual exams.
2. A starter kit for Arduino that contains at least:
Arduino Uno
4x4 Matrix Keyboard
LCD 1602 Parallel Module
Servo
ULN2003 Stepper Motor Driver Board
Stepper motor
HDT-11 or AHT-20 Temperature/Humidity Sensor
Power Supply Module
Ultrasonic Sensor Module
DS3231 Clock Module
10K Potentiometer
7 Segment LED
LED's
Button switches
Breadboard
Jumper Wires
Resistor Assortment
For example: Smraza Ultimate Starter Kit for Arduino R3 Project with Tutorial, 200pcs Components Compatible with Arduino (67 Items) with 9V 1A Power Supply **is required**
3. Windows PC capable of running Keil uVision software for TI LaunchPad.

ACADEMIC DISHONESTY:

All work will be the individual work of each student/group. Plagiarism or copying of another work, providing the information to another student/group, cheating and dishonest practices in any form will result in zero, 0, points for the work in question. A second occurrence of academic dishonesty will result in a failure, F, for the course.

GROUPS:

The class will form groups of two to three students each. Each group will work together throughout the semester. Some class activities will be performed as a group. In addition to the class activities, the group members will work together outside of class. Group work does not mean one person does the work and everyone claims credit for the work. All members of a group will be accountable for the work. A group will only include the names of members who participated on the assignments, quizzes, or exams. Only members who participated on the work will receive credit for the work.

READINGS:

The class material is to be read before viewing the lecture. Typically, the class activities and lectures are based on the text. A student who does not read the material prior to the lectures may have difficulties following the class activities and lecture. Viewing the class lecture is required before the question/discussion face to face time of the class. Student participation is required during the class and students may be orally questioned.

QUIZZES:

Unannounced quizzes will be given throughout the semester. The quizzes contain material that should have been read from the text for the class and/or information provided during previous class activities and/or recorded lectures. The quizzes may be individual or group efforts and are closed book and closed notebook. There will be no makeup quizzes and zero points will be entered for a missed quiz. The lowest quiz will be dropped for the semester.

EXAMS:

There will be two announced exams during the semester in addition to the final. The exams are individual efforts and are applied problems using your TI Tiva C LaunchPad. There will be no makeup exams distributed and zero points will be entered for a missed exam. If there is a conflict with an exam date, notify me before the exam date so that an arrangement can be made. The final exam of the semester is mandatory and can be counted as one or two exam scores. When counted as two exam scores, it will be counted as the final and used to replace the lowest exam score of exam one or exam two. The decision to count the last exam as one or two exams will be chosen by the student before the last exam is collected for grading.

E-MAIL:

All e-mails need to come from your Pennwest account and have a descriptive subject with course identification and senders name included. Without this information the e-mail may be deleted as junk mail. E-mail will not be treated as an "instant message" or "text message", you will not receive an instant reply to your e-mails at all hours during the week.

ATTENDANCE:

Attendance is mandatory. Zero points are entered for all absences, even with excuses. You either attended the class or did not. Attendance will be based on the beginning of the class. To receive attendance points you must be present for the class.

GRADING:

GRADE SCALE:

CLASS ATTENDANCE (avg)	10%
LAB (avg)	25%
QUIZZES (avg)	20%
TESTS (avg)	45%
TOTAL	100%

[90%-100%]	A
[80%-90%)	B
[70%-80%)	C
[60%-70%)	D
[0%-60%)	F

Grades are NOT curved.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

Pennsylvania Western University of Pennsylvania offers services to meet the accommodation needs of students with many types of disabilities. The Office for Students with Disabilities provides services to students based upon documentation of a disability and a request for accommodations based on this disability. Please refer to PennWest's Reasonable Accommodations for Students with Disabilities Policy for additional information. This policy is in compliance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973.

Students reserve the right to decide when to self-identify and when to request accommodations. Students requesting approval for reasonable accommodations should contact the Office for Students with Disabilities (OSD). Students are expected to adhere to OSD procedures for self-identifying, providing documentation and requesting accommodations in a timely manner.

For questions about accommodations please contact:
PennWest California- John Massella at Osd-cal@pennwest.edu
PennWest Clarion- Ron Radaker at Osd-clr@pennwest.edu
PennWest Edinboro- Sharon Conklin at Osd-edn@pennwest.edu

Title IX Reporting Requirements and the Faculty Member

Pennsylvania Western University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to comply with the requirements of Title IX of the Education Amendments of 1972 and the university's commitment to offering supportive measures in accordance with the new regulations issued under Title IX, PennWest requires faculty members to report incidents of sexual violence shared by students to the university's Title IX Coordinator, Amy Salsgiver [asalsgiver@pennwest.edu]. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a university-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the university's Protection and Supervision of Minors on Campus Policy.

Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence are available on the Office of Equity and Title IX website. Reports may be made to the following individuals:

- PennWest Title IX Coordinator: Amy Salsgiver, asalsgiver@pennwest.edu
- Edinboro campus: Andrew Matt, amatt@pennwest.edu
- Clarion campus: Amy Salsgiver, asalsgiver@pennwest.edu
- California campus: Sheleta Camarda-Webb, camardawebb@pennwest.edu
- Global Online: Andrew Matt, amatt@pennwest.edu

TEACHING METHODOLOGY:

This course will be taught using a flipped classroom approach. Recorded lectures will be made available in D2L and the face to face class time will be used for questions and answers of the material along with assessments.