

University of Maine — ECE271: Microcomputer Architecture and Applications
Spring 2019

Instructor:

Vincent Weaver, e-mail: vincent.weaver@maine.edu

Office: Barrows 203

Office Hours: 12:30pm-1:30pm Tuesday and Thursday, or e-mail to arrange an appointment

Teaching Assistants: TBA

Course Website:

http://web.eece.maine.edu/~vweaver/classes/ece271_2019s/

Lectures: Tuesday/Thursday 9:30am-10:45am, Barrows 119

Labs: MoTuWeTh 2:00pm-4:50pm, Kepware Lab (Barrows 225)

Final Exam: Tuesday 7 May 2019, 8:00am-10:00am, Barrows 119

Course Listing:

The microcomputer and its component parts including microprocessors, registers, memory and I/O. Programming in C and Assembly and applying the microcomputer in engineering systems. Lec 4. (Spring.)

Pre-requisites:

ECE275 Sequential Logic Systems

This course involves C coding and ARM assembly language.

Textbook:

Embedded Systems: With ARM Cortex-M Microcontrollers in Assembly Language and C, Third Edition by Yifeng Zhu, 2017.

Grading:

Class Participation / Quizzes – 5%

Prelim 1 – 10%

Prelim 2 – 15%

Final Exam – 20%

Labs – 50%

Lab Policy

- Labs will be submitted electronically unless otherwise specified.
- All labs are due at the beginning of the next lab session you enrolled. Late submission and demonstration are penalized 20% for each late day, including weekends. Once solutions are published, late lab work cannot be accepted for credit. In addition, to accommodate unexpected events, you have a total of five “free” days of late demonstration and submission without penalty for all labs except the last one. You can use at most three days in the last lab assignment.
- In all lab assignments, student must work independently, not in a group team, unless it is specified as a group assignment in the lab document. If nothing is specified, you should assume that the lab should be completed independently, without any collaboration with any others.

University of Maine required Statements

Academic Honesty Statement

Academic honesty is very important. It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or reword parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University.

Students with disabilities statement

If you have a disability for which you may be requesting an accommodation, please contact Student Accessibility Services, 121 East Annex, 581-2319, as early as possible in the term. Students who have already been approved for accommodations by SAS and have a current accommodation letter should meet with me (the instructor of the course) privately as soon as possible.

Course Schedule Disclaimer (Disruption Clause)

In the event of an extended disruption of normal classroom activities, the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.

Sexual Violence Policy and Sexual Discrimination Reporting

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell a teacher about an experience of sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct or any form of gender discrimination involving members of the campus, your teacher is required to report this information to the campus Office of Sexual Assault & Violence Prevention or the Office of Equal Opportunity.

If you want to talk in confidence to someone about an experience of sexual discrimination, please contact these resources:

- For confidential resources on campus: Counseling Center: 207-581-1392 or Cutler Health Center: at 207-581-4000.
- For confidential resources off campus: Rape Response Services: 1-800-310-0000 or Spruce Run: 1-800-863-9909.
- Other resources: The resources listed below can offer support but may have to report the incident to others who can help: For support services on campus: Office of Sexual Assault & Violence Prevention: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911.

Or see the OSAVP website for a complete list of services at <http://www.umaine.edu/osavp/>