Computer Organization 2

CDA 3101: Spring 2019
Department of Computer Science, Florida State University

January 8, 2019

Class Time and Location

Lecture: Tuesdays, Thursdays: 3:35 PM - 4:50 PM MCH 201.

Recitations:

Monday: 10:10 AM - 11:00 AM MCH 202 Tuesday: 11:00 AM - 12:15 PM MCH 202 Wednesday: 10:10 AM - 11:00 AM MCH 202 Thursday: 11:00 AM - 12:15 PM MCH 202

Instructor Information

• Instructor: Sharanya Jayaraman

• Email: jayarama@cs.fsu.edu

Office: LOV 205 AOffice hours: TBA

Teaching Assitants

Office Hours for TA's are posted on the course website.

- Greg Kondyukov gk11c@my.fsu.edu
- Daniel Mock dam11k@my.fsu.edu

Emails received after 5 PM will be answered within the next business day.

Class Homepage

Course Website: www.cs.fsu.edu/~jayarama/org2.php

This website contains all information related to this class including lecture slides, assignments, extra material handed out during class and links to some useful resources. The class will also have a Canvas page which will be used to turn in assignments, post grades and for sending out announcements.

Prerequisites

- All students taking CDA 3101 are required to have previously taken and passed (with a C-or higher final grade) CDA 3100 (Computer Organization 1). Additionally, you must have working knowledge of Unix and proficiency in C++ or C.
- If you have not completed this pre-requisite requirement, the CS department will most likely drop you from this course in the first week of classes.
- To be sure that your course schedule is correct, if you do not have the pre-req you should drop yourself from this course and then adjust your class schedule appropriately with the help of your academic advisor.

Course Objectives

This course is intended for majors in computer science or related areas and focuses on intermediate concepts in computer organization and architecture. Upon successful completion of the course, the student should:

- Have a good understanding of the basics, including binary arithmetic, assembly language programming and the processor datatpath.
- Have a fundamental understanding of processor design, including datapath and control and pipelining.
- Have a fundamental understanding of memory hierarchies and I/O.
- Be able to apply this knowledge in other ares of computer science.

Textbook

Computer Organization and Design: The Hardware/Software Interface, 5th Edition. Author(s): D. Patterson and J. Hennessy. This is available online from multiple retailers. This is the only book you will need for this course. If you have a previous edition, just ensure you're reading the appropriate sections by checking with someone who has the current version (5th edition)

Assignments, Projects and Tests

Assignments will be given periodically through the semester. They will be posted on the course website. You will have a week to 10 days to complete homework assignments, and about 2-3 weeks to completer programming assignments. You might be working on homework assignments and programming assignments at the same time.

Quizzes will be used to determine class participation and will not be announced beforehand. They will involve a few questions from the day's class material and will be held at the end of recitations.

There will be three tests over the course of the semester. The dates for the two midterms will be posted later. The final is at 5:30 PM on Tuesday, 4/30/2019, in class.

Grading Policy

The final course grade will be computed as follows:

	1
Quizzes and Class Participation	10%
Homeworks	15%
Programming Assignments	30%
Midterm 1	15%
Midterm 2	15%
Final	15%

Requests for regrading should be within a week of grades being posted on Canvas.

The final grade will be calculated according to your numerical average as shown in the table below.

THE CLASS WILL NOT BE GRADED ON A CURVE

		A	>93	A-	92.99 - 90
B+	89.99 - 87	В	86.99 - 83	В-	82.99 -80
C+	79.99 - 77	С	76.99 - 73	C-	72.99 -70
D+	69.99 - 67	D	66.99 - 63	D-	62.99 -60
F	<60				

In addition to the scale listed above, in order to earn a C- or better in the course, a student is required to achieve a test average of C- or better. If the test average is below this level, the highest possible course grade is a D.

The test average can be computed with the following formula: TestAvg = ((Test1 * 15) + (Test2 * 15) + (FinalExam * 15)) / 45

The Letter Grade on Canvas is not accurate

Canvas only takes the graded assignments into account while calculating your letter grade. So, you might see a grade of A- one day and C- the next. Please do not assume the Canvas letter grade is your actual grade. Please calculate you grade according to the grade distribution, with a 0 for all the grade that haven't yet been posted. If you need an Excel formula for your grade, please email the instructor/TA's for one.

Late Assignment Policy

Students are expected to turn their assignments in on or before the due date. Late assignments will suffer a 10 percentage point penalty for the first 24 hour period. For example, an assignment worth 200 points turned in late will receive a 20 point penalty. Assignments turned in more than a day after the due date will receive a grade of '0', but you can still have it graded and receive feedback.

Extra Credit Policy

Extra credit points will be offered on both the midterm and the final. Students might also have the opportunity to earn extra credit points on certain assignments. Also, students will be offered 1 % extra credit on their final grade if they participate in the ACM Spring 2019 programming contest and solve at least one problem.

Academic Honor Code

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students? academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to ". . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at http://dof.fsu.edu/honorpolicy.htm)

Assignments/projects/exams are to be done individually, unless specified otherwise. It is a violation of the Academic Honor Code to take credit for the work done by other people. It is also a violation to assist another person in violating the Code (See the FSU Student Handbook for penalties for violations of the Honor Code). The judgment for the violation of the Academic Honor Code will be done by the instructor and a third party member (another faculty member in the Computer Science Department not involved in this course). Once the judgment is made, the case is closed and no arguments from the involved parties will be heard. Examples of cheating behaviors include:

- Discuss the solution for a homework question.
- Copy programs for programming assignments.
- Use and submit existing programs/reports on the world wide web as written assignments.
- Submit programs/reports/assignments done by a third party, including hired and contracted.
- Plagiarize sentences/paragraphs from others without giving the appropriate references.

Penalty for violating the Academic Honor Code: A 0 grade for the particular assignment/quiz/exam and a reduction of one letter grade in the final grade for all parties involved for each occurrence. A report will be sent to the department chair for further administrative actions.

Accommodation for Disabilities

Students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC), and 2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done within the first week of class. This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the Assistant Dean of Students:

Student Disability Resource Center 97 Woodward Avenue, South 108 Student Services Building Florida State University Tallahassee, FL 32306-4167 (850) 644-9566 (voice) (850) 644-8504 (TDD)

sdrc@admin.fsu.edu

http://www.disabilitycenter.fsu.edu/

Syllabus Change Policy

This syllabus is a tentative guide for the course and is subject to change. You'll be informed in class if there's a change in the syllabus.