

Along with technical questions in the homework, we will also discuss ethical issues related to operating systems. We want you to understand that along with technical choices come moral implications, and we want to be able to identify and reason about them There will be 2 written (1 page) assignments to discuss contemporary ethical issues in operating systems to day.

We will be using iClicker to make sure everyone is up to speed To encourage participation 1% of your final grade will come from your participation At the end of the semester you will receive 100% if you get at least 70% of participation Anything under 70% will be provated

I do not grade on a curve. The exams and projects measure what you are expected to have learned There aren't many opportunities for extra credit, but there are borus questions on exams.

We will be doing individual programming assignments. You will have one week after a programming assignment is assigned to complete it. I will allow assignments to be submitted up to two days late with a 10 point penalty. You may not submit assignments that are over 2 days late. Individual programming assignments are not goop projects. If students get help chassignments, even to resolve a stupid problem, it must be documented in the code with the name of the personnendering the help and a brief description of the help provided. Extensive help chan project will result in a reduced grade. Failure to document help, or any other forms of cheating will result in a failing grade on the assignment at a minimum and may result in failure of the course. All incidents will be reported to the Office of Student Conduct & Ethical Development. Even in open source, you cannot copy code from one open source project to another without attribution. Sharing solutions with other students, even if it is indirectly through public source repositories, fails under "aiding and abeting".

The University Policy S169 Course Syllabi (http://www.sjsuedu/senate/docs/S169pdf) requires the following language to be included in the syllabus:

'Success in this cause is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities, including but not limited to internships, labs, and clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus

#### **Final Examination or Evaluation**

All exams, including the final, will use respondus monitor and require a webcarm and environment checks.

This course will have a cumulative final examply enduring examy eek

Grade	Percentage
Cnins	70 <b>to 72</b> %
Dphs	<b>66to 69%</b>
D	<b>631065%</b>
Duins	

### ClassroomProtocol

This is your class. Please askquestions. Please come prepared Donot engage in activity that may distract other students.

I do not take attendance except for the first two classes. Students not attending either of the first two classes will be dropped to make roomfor students on the waiting list. Attempting to get marked as present (by have someone else attend in your place or using technological deceptions) will be considered academic dishonesty and at a minimum will result in you getting dropped from the course.

YOU WILL BE REQUIRED TO HAVE YOU WEBCAMTURNED ON DURING LECTURES OVER ZOOM The instructor needs non verbal feedback during lecture to make sure sturkent understand Experience has indicated that requiring webcans on is the best way to do this.

## **UniversityPolicies**

Per<u>University Policy S169 (http://www.sjsuedu/serate/docs/S169 pdf)</u> (http://www.sjsuedu/serate /docs/S169 pdf), relevant university policy concerning all courses, such as sturlent responsibilities, academic integrity, accommodations, dopping and adding consent for recording of class, etc. and available sturlent services (e.g. learning assistance, courseling and other resources) are listed on <u>Syllabus Information web page (http://www.sjsuedu/gup/syllabusinfo)</u> (http://www.sjsuedu /gup/syllabusinfo), which is hosted by the Office of Undergraduate Education Make sure to visit this page to review and be aware of these university policies and resources.

# CS 47, Introduction to Computer Systems, 01, Spring 2021, Course Schedule

This syllabus may change to accommodate class passing crunforeseen events. Changes will be posted on canvas as soon as they happen

#### **CourseSchedule**

Dates	Week	Topics
1/27	1	Programming in assembly
2/1, 2/3	2	Computer Abstract (Chapter 2) (programming assignent 1 due)
2/8, 2/10	3	ASCII and Unicode (31) number systems (35&36)
2/15, 2/17	4	unsigned and signed binary numbers (32&33) & emilarness (34) (programming assignment 2 due)
2/22, 2/24	5	Exam1, Representing floating point (37)
3⁄1, 3⁄3	6	Floating point anithmetic (38) Anays (39)
3 <b>/8</b> , 3/10	7	(programming assignment 3 due) Memory (4 1) Memory hierarchy (4 2)
3⁄15, 3⁄17	8	RAM and ROM (43 & 44) subroutines (chapter 5)
3/22, 3/24	9	suboutines (chapter 5) linking and loading (programming assignment 4 due)
3/29, 3/31		Springbreak

Dates	Week	Topics
4/5, 4/8	10	the CPU (chapter 6) (programming assignment 5 due)
4/12, 4/15	11	the CPU (chapter 6) continued
4/19, 4/22	12	exam2, gates (7.2) and combinational logic (7.3)
4/26) 4/29	13	constructing ALU (7.4) and faster addition (7.5) (programming assignment 6 due)
5/3, 5/5	14	dod <del>s</del> (7.6) and memory elements (7.6)
5/10, 5/12	15	memny (82) and caching (83 & 84)
5⁄17	16	Masking with bits (chapter 9)

5/19@ 12:15 Final Exam