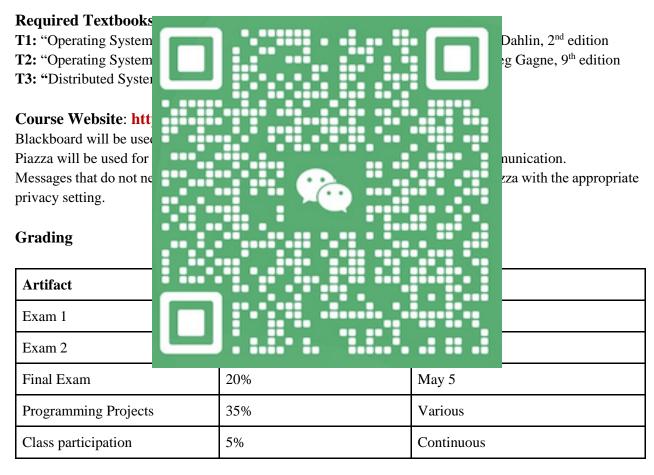# CSCI 350 Introduction to Operating Systems
Spring 2021 Syllabus

CSCI 350 Introduction to Operating Systems class teaches the core operating system concepts, mechanisms, and their implementations.

Instructor	Email	Office Hours	Lecture
Tatyana Ryutov	tryutov@usc.edu	TBD via Zoom	Friday, 1pm-4:20pm, via Zoom

Required Textbooks
T1: "Operating System   Dahlin, 2nd edition
T2: "Operating System   eg Gagne, 9th edition
T3: "Distributed System

Course Website: **htt**
Blackboard will be use
Piazza will be used for   nunication.
Messages that do not ne   zza with the appropriate
privacy setting.

Grading

Artifact		
Exam 1		
Exam 2		
Final Exam	20%	May 5
Programming Projects	35%	Various
Class participation	5%	Continuous

During each class there will be about 6 in-lecture questions that require answer via Google forms using a link posted on the course Piazza page.

Each student will receive a private code repository on the course's GitHub Organization to use for the development and submission of all assignments. We will only accept work submitted through this organization; in order to gain access, you must first complete our online quiz about the project rules. This quiz will be posted and pinned on Piazza.
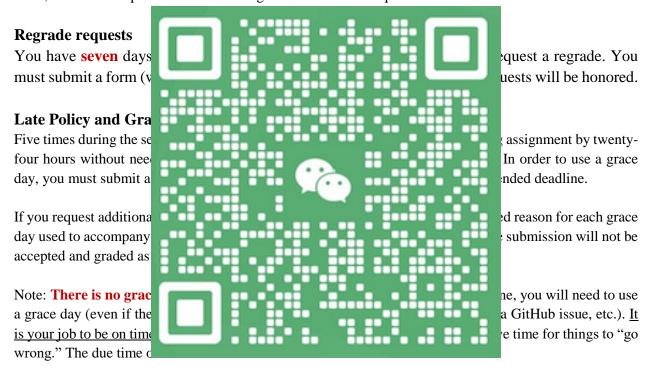
Academic Honesty and Programming Projects

Please see the programming project regulations posted on Piazza in Resources for a description of what collaboration is and is not acceptable in programming assignments, as well as how to credit acceptable assistance on these assignments.

Exams

Both non-final exams will be held *at the start of lecture* on the designated days. Exams will be individual effort, closed-book and closed-notes. You will be allowed **one** 8.5x11inch **handwritten** note sheet (front & back) on the exams.

Students requiring alternate exam arrangements must make such requests within **the first two weeks of the term**, or as soon as possible after knowing of the conflict or requirement.

Regrade requests

You have **seven** days ~~~~~~ equest a regrade. You must submit a form (~~~~~~ uests will be honored.

Late Policy and Gra~~~~~~

Five times during the se~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ assignment by twenty-four hours without need~~~~~~ In order to use a grace day, you must submit a~~~~~~ nded deadline.

If you request additiona~~~~~~ d reason for each grace day used to accompany~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ e submission will not be accepted and graded as~~~~~~

Note: **There is no grac~~~~~~** ne, you will need to use a grace day (even if the~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ a GitHub issue, etc.). It is your job to be on time~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ e time for things to "go wrong." The due time o~~~~~~

Projected Schedule

Class sequence, dates, reading assignments, and topics are subject to change as the semester proceeds. Any revisions will be noted and announced in class.
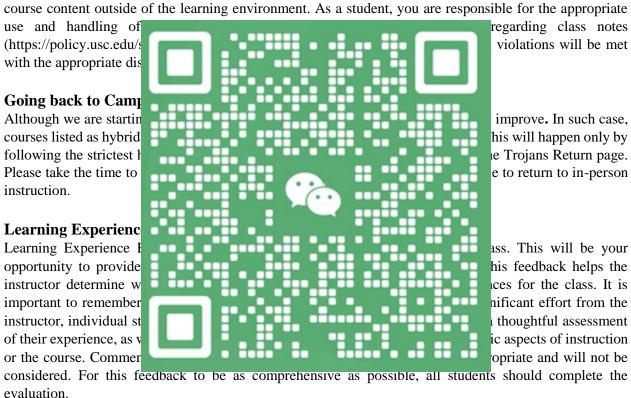
Lec.	Day	Topic	Readings
1	1/15	Introduction, Process abstraction, Context switch	T1: Chapters 1.1; 1.2; 2.1

2	1/22	The Kernel abstraction, System calls	T1: Chapters 2.2-2.8; 2.10 T1: Chapters 3.1-3.3; 3.5
3	1/29	Concurrency and threads	T1: Chapters 4.1-4.8
4	2/5	Synchronization	T1: Chapters 5.1-5.5; 5.7; 5.8
5	2/12	Advanced Synchronization	T1: Chapters 6.1-6.6
	2/19	Midte	
6	2/26	Sche	; 7.2 -6.3, 6.5
7	3/5	Memo	-8.3 -9.3, 9.7, 9.9
	3/12	No le	
8	3/19	Stora	12.1; 12.2
9	3/26	COW Reliable Storage	.1-13.3.4; 14
10	4/2	Protection and Security	T2: Chapters 14.4-14.6; 15.1-15.3; 15.6-15.7
	4/9	Midterm2	
11	4/16	Trusted Systems Design, Distributed Systems intro	T3 1.1-1.3

12	4/23	Remote Procedure Call, Distributed Mutual exclusion, Distributed parallel computing	T3 4.2 T3 6.3 (pp. 321-329)
	4/30	No lecture, University Wellness day	
		Final Exam May 5, 2:00-4:00pm	

Synchronous session recording notice

Live class sessions will be recorded and made available to students through Blackboard (including transcriptions). Please remember that USC policy prohibits sharing of any synchronous and asynchronous course content outside of the learning environment. As a student, you are responsible for the appropriate use and handling of _____ regarding class notes (https://policy.usc.edu/s_____ violations will be met with the appropriate dis_____

Going back to Camp_____

Although we are startin_____ improve**.** In such case, courses listed as hybrid_____his will happen only by following the strictest h_____e Trojans Return page. Please take the time to_____e to return to in-person instruction.

Learning Experienc_____

Learning Experience E_____ass. This will be your opportunity to provide_____his feedback helps the instructor determine w_____ces for the class. It is important to remember_____nificant effort from the instructor, individual st_____ thoughtful assessment of their experience, as w_____ic aspects of instruction or the course. Commen_____opriate and will not be considered. For this feedback to be as comprehensive as possible, all students should complete the evaluation.

Academic Conduct

Plagiarism – presenting someone else's ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, "Behavior Violating University Standards" policy.usc.edu/scampus-part-b. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, policy.usc.edu/scientific-misconduct.

Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved
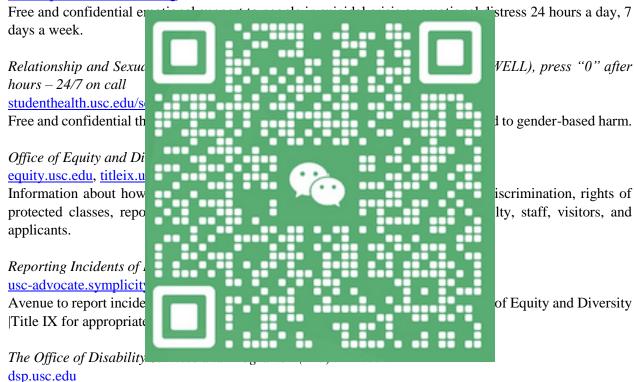
accommodations can be obtained from DSP. Please be sure the letter is delivered to me as early in the semester as possible. Your letter must be specific as to the nature of any accommodations granted. DSP is located in STU 301 and is open 8:30 am to 5:30 pm, Monday through Friday. The telephone number for DSP is (213) 740-0776.

Support Systems

Counseling and Mental Health - (213) 740-9355 – 24/7 on call
studenthealth.usc.edu/counseling
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

National Suicide Prevention Lifeline - 1 (800) 273-8255 – 24/7 on call
suicidepreventionlifeline.org
Free and confidential e̶motional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

Relationship and Sexu̶a̶l̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ WELL), press "0" after hours – 24/7 on call
studenthealth.usc.edu/s̶
Free and confidential th̶ d to gender-based harm.

Office of Equity and Di̶ ̶ ̶ ̶ ̶
equity.usc.edu, titleix.u̶
Information about how ̶ iscrimination, rights of protected classes, repo̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ lty, staff, visitors, and applicants.

Reporting Incidents of ̶ ̶ ̶
usc-advocate.symplicity̶
Avenue to report incide̶ of Equity and Diversity |Title IX for appropriate̶

The Office of Disability̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ ̶ (̶ ̶ ̶)̶ ̶ ̶ ̶ ̶
dsp.usc.edu
Support and accommodations for students with disabilities. Services include assistance in providing readers/notetakers/interpreters, special accommodations for test taking needs, assistance with architectural barriers, assistive technology, and support for individual needs.

USC Campus Support and Intervention - (213) 821-4710
campussupport.usc.edu
Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity at USC - (213) 740-2101
diversity.usc.edu

Information on events, programs and training, the Provost's Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

USC Emergency - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call
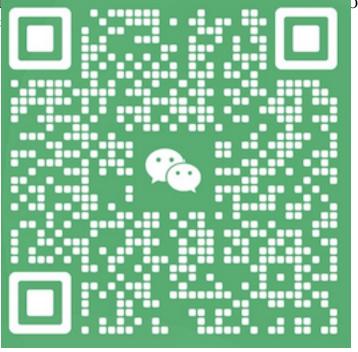dps.usc.edu, emergency.usc.edu
Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

USC Department of Public Safety - UPC: (213) 740-6000, HSC: (323) 442-120 – 24/7 on call
dps.usc.edu
Non-emergency assistance or information.

Office of the Ombuds - (213) 821-9556 (UPC) / (323-442-0382 (HSC)
ombuds.usc.edu
A safe and confidential   Ombuds who will work with you to explore opt