# Course Syllabus



Course Title Professor	CS/SE 4348.Ou2 Operating Systems Concepts Ravi Prakash Summer 2023
Meetings	Tuesdays and Thursdays, 10:00 am – 12:15 pm
Location	ECSS 2.306

#### Professor's Contact Information

Office Phone	072-883-2289
Office Location	ECSS 4.210 (office hours will be on MS Teams)
Email Address	ravip@utdallas.edu
Office Hours	Tuesdays and Thursdays, 4-5 pm on MS Teams
Other Information	If my office hours do not suit you, or you wish to meet me at some other time, please email me. UTD email is the best way to contact me.

### **General Course Information**

Pre-requisites	(CS 2340 or SE 2340 or equivalent) and (CS 3377 or SE 3377)		
	and (CE 3345 or CS 3345 or SE 3345). Repeat Restriction.		
Course			
Description	their design, implementation, and usage. Topics include process		
	management, main memory management, virtual memory, I/O		
	and device drivers, file systems, secondary storage		
	management, and an introduction to critical sections and		
	deadlocks.		
Learning	1. An understanding of processes		
Outcomes	2. An understanding of threads		
	3. An understanding of concurrent programs		
	4. An understanding of simple memory management		
	5. An understanding of virtual memory		
	6. An understanding of scheduling algorithms		
	7. An understanding of I/O management		
	8. An understanding of file management		
	9. An understanding of OS virtualization		
Required Texts &	Operating Systems Concepts, Ninth Edition, by Silberschatz,		
Materials	Galvin and Gagne, ISBN: 978-1-118-06333-0 (Publisher: Wiley)		
Suggested Texts,	Any additional reading material will be posted by the instructor on		
Readings, &	o _ o a lo		
Materials			

## Assignments & Academic Calendar

DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE
05/25	Introduction	Chapters 1, 2	n/a	n/a
05/30- 06/06	Processes	Chapter 3		
06/08- 06/08	Threads	Chapter 4		
06/13- 06/20	Process Synchronization	Chapter 5	Quiz 1	TBD
06/22- 06/29	CPU Scheduling	Chapter 6	Quiz 2	TBD
07/06- 07/11	Deadlocks	Chapter 7	Midterm Exam	07/11 (tentative)
07/13- 07/18	Main Memory	Chapter 8		
07/20- 07/25	Virtual Memory	Chapter 9	Quiz 3	TBD
07/27- 07/27	Mass-Storage Structure	Chapter 10		
08/01- 08/03	File Systems	Chapters 11, 12		
08/08- 08/08	I/O Systems	Chapter 13	Quiz 4	TBD

## **Course Policies**

Class Materials	The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the <u>Student</u> <u>Code of Conduct.</u>
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Class Attendance	The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes.	
Class Participation	Regular class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the <u>Student Code of Conduct</u> .	
Class Recordings	Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the <u>Student Code of Conduct</u> . <b>NOTE: if the instructor records any part of the course, then the</b> <i>instructor will need to add the following syllabus statement:</i> The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.	
Grading (credit) Criteria	Midterm exam: 30%, Final exam: 30%, programming projects: 25%, quizzes: 15%. All programming projects must be demonstrated to the instructor or the TA for the student to receive a grade for them. Lowest quiz grade will be dropped for each student.	
Make-up Exams	Make-up examinations will be offered only if the student has a valid medical reason and produces a doctor's letter.	
Extra Credit	No extra-credit work will be assigned.	
Late Work	Programming projects submitted after the due date will be penalized at the rate of 10% of the total credit for that project for every day (not including weekends and holidays) by which they are late. Late submissions will not be accepted once the solution has been discussed in class and the graded submissions have been returned. Make-up quizzes will not be offered once quiz grades and feedback have been made available to the class, unless the student has extenuating medical conditions.	
Special Assignments	None	

Classroom Citizenship	The instructor encourages students to take active part in class discussions. No question is too simple/stupid to be asked. So, do not hesitate.
Comet Creed	This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same: "As a Comet, I pledge honesty, integrity, and service in all that I do."
Academic Support Resources	The information contained in the following link lists the University's academic support resources for all students. Please go to <u>http://go.utdallas.edu/academic-support-resources</u> .
UT Dallas Syllabus Policies and Procedures	The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the sections regarding the <u>credit/no credit</u> grading option and withdrawal from class. Please go to <u>http://go.utdallas.edu/syllabus-policies</u> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.