

CS169: Operating Systems Project

Course Information and Syllabus Semester II, 2017–2018

Format	Half-credit lab course
Sessions	Occasional Tuesday and Thursday evenings, 7–9pm. The first meeting is on February 6.
Room	TBA
Notes	Handed out in class
Corequisite	CS 167
Instructor	Tom Doepfner (twd@cs.brown.edu)
Office	CIT 405, x3-7633
Office Hours	Mondays and Wednesdays 3 to 4, Fridays 4 to 5, by appointment, or just stop by.
Head TA	Isaac Davis (imdavis@cs.brown.edu)
UTAs	Jonathan Lister (jglister@cs.brown.edu) Max Luzuriaga (mluzuria@cs.brown.edu) Benjamin Murphy (bmmurphy@cs.brown.edu) Jake Saferstein (jsaferst@cs.brown.edu) Di Yang Shi (ds65@cs.brown.edu)
Requirements	1 Program; 5 deadlines: Processes due February 12 Drivers due February 21 Virtual File System due March 12 S5FS (File System) due April 9 Virtual Memory due May 7
Time Requirements	You are expected to be taking this course along with CS 167. The additional time you will spend on this course will be 8 to 10 hours per week. Thus the time required for both courses, in addition to three hours spent in class for CS167, is 20 to 30 hours per week. Note that you will likely spend more time per week in the latter half of the course than in the first half.
Goals	The primary goal of this course is to gain additional practical experience with constructing operating systems, beyond that which is obtained in CS167. You will gain a greater understanding of a large

	code base and work with portions of it that students doing just CS167 won't have time to encounter. In particular you will work with, among other portions of the system, the virtual memory system and its interplay with the file system.
Diversity: All Are Welcome	Our intent is that this course provide a welcoming environment for all students who satisfy the prerequisites. Our TAs have undergone training in diversity and inclusion; all members of the CS community, including faculty and staff, are expected to treat one another in a professional manner. If you feel you have been treated unprofessionally by any of the course staff, please contact either Prof. Doeppner (the instructor), Prof. Cetintemel (the department chair), or Laura Dobler (the department's coordinator for diversity and inclusion initiatives). We take all complaints about unprofessional behavior seriously.
Grading	While we will give you written and oral feedback on your progress on the course project, your grade in the course depends solely on how well the final version of your project works.
Late Policy	All deadlines other than the last are relatively soft: being a few days late is ok. But the final deadline, May 7, is firm.
Incomplete Policy	We expect everyone to complete the course on time. However, we certainly understand that there may be factors beyond your control, such as health problems and family crises, that prevent you from doing so. If you feel you cannot complete the course on time, please discuss with Prof. Doeppner the possibility of being given a grade of Incomplete for the course and setting a schedule for completing the course over the summer.
Accommodations	If you feel you have physical, psychological, or learning disabilities that could affect your performance in the course, we urge you to contact SEAS (https://www.brown.edu/campus-life/support/accessibility-services/). We will do whatever we can to support accommodations recommended by SEAS.
Mental Health	Being a student can be very stressful. If you feel you are under too much pressure or there are psychological issues that are keeping you from performing well at Brown, we encourage you to contact Brown's Counseling and Psychological Services (CAPS: https://www.brown.edu/campus-life/support/counseling-and-psychological-services/). They provide confidential counseling. In addition, the deans of student life as well as the deans of the college can provide notes supporting extensions on assignments for health reasons.

Coping with Unforeseen Events	If there are events that are upsetting to you, whether political, family-related, weather-related, etc., that affect your ability to do well in class, we are happy to take them into account with respect to our late and incomplete policies. Please feel free to talk to Prof. Doeppner about this.
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Meetings

Date	Topic	Out	Due
Jan 29		Processes	
Feb 6	Intro to 169; Processes help session CIT 368		
Feb 12	(No meeting)	Drivers	Processes
Feb 13	Drivers help session		
Feb 21	(No meeting)	VFS	Drivers
Feb 22	VFS help session		
March 12	(No meeting)	S5FS	VFS
March 13	S5FS help session		
April 9	(No meeting)	VM	S5FS
April 10	Virtual Memory help session		
May 7	(No meeting)		VM