

Spring 2015 CS 570 Survey – Objectives met 77%

After taking this course, I understand	Yes	Partially	No	%
1. the role of operating systems and hardware support (kernel mode, exceptions, MMU, etc.) that enables it to perform this role.	19	10	0	83
2. process management, user and kernel thread trade-offs, synchronization issues, and memory consistency.	18	11	0	81
3. the threads and events trade-off, their duality, and stack management (fibers vs. continuations).	13	14	2	69
4. data races and static and dynamic methods to detect them automatically.	19	9	1	81
5. file systems and strategies to multiplex multiple streams on a single disk stream.	15	13	1	74
6. durability and the asynchronous and synchronous trade-off and in-between solutions like external synchrony.	24	5	0	91
7. file system integrity and trade-offs of different approaches including journaling, dependencies, etc.	21	8	0	86
8. memory management, demand paging, similarities and differences from file management, and hardware support necessary for paging.	14	14	1	72
9. page size trade-offs and techniques to best utilize multiple sizes.	15	12	2	72
10. operating system design principle of deceiving applications to multiplex system resources.	13	15	1	71
11. how virtualization builds upon operating systems technique of deceiving to treat an operating system like a user program and emulate privileged operations.	16	12	1	76
12. the general principle of handling trade-offs by finding an optimal point for a given set of requirements.	14	14	1	72
13. how to read research papers and understand their contribution.	18	10	1	79

Comments:

- Learned new things and this course was also helpful to refresh basics of undergrad OS.
- Assignments should be more than 2 and 1 month shouldn't be given as it makes student a bit lazy.
- Some research papers need to be removed as discussed in class.
- A detailed course overall but some difficult papers like virtualization should be given more time and some more papers.
- A bit more programming would be cool.
- The threading part of course could have been started with some more basics.
- Never have taken this good a course. Just what I wanted.
- This course plays an important role in understanding previous concepts too.
- The overall course was great. You teach very well but sometimes when you were writing on board makes it difficult to understand.
- Assignments should lead to certain direction. Assignment 1 was more of a hack. May be a semester long project would yield more benefits.
- The course could use a lot more class involvement. Asking students to write summaries of each paper for a small percentage of the grade would greatly help in making students read the paper.
- Disappointment.