Course Title	Introduction to Operation System							
Representative Instructor	Name	Seongsoo Hong (post : Professor)		Homepage	http://redwood.snu.ac.kr/~sshong			
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Prerequisite Course	Programming, C, Language, Algorithm, Computer Architecture							
Course Description	The purpose of this course is to learn important concepts and theories that are indispensable for implementing an operating system (OS). Specifically, process management, scheduling, synchronization of shared resources, memory management/virtual memory, input/output management system, and storage/file systems are studied. OS is the most essential system software that drives a computer system. As the development of time-sharing OS started in the mid-1960s, OS technology developed greatly, and now the academic system has been completed. As a result, the OS performs the role of a runtime platform that smoothly executes various users' application programs beyond the function of a simple hardware resource manager. From an industrial point of view, the OS forms an ecosystem of apps to provide the highest convenience and usefulness to users. Therefore, it is impossible to have a professional understanding of a computer system without knowledge of the OS.							
Textbook	Operating System Concepts (Paperback, 10th Edition) / Abraham Silberschatz, Peter B. Galvin, Greg Gagne / Wiley / ISBN:978-1-119-58616-6							

Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	0	30	35	35	0	0	0	100
	Note							

Lecture Contents	1 Week	Introduction to OS
	2 Week	Review of Computer Hardware
	3 Week	Stack and Dynamic Memory Allocation of Local Variables
	4 Week	Processes and Threads
	5 Week	CPU Scheduling
	6 Week	Process Synchronization
	7 Week	Deadlock
	8 Week	GNU Linker
	9 Week	Dynamic Memory Allocation
	10 Week	Segmentation and Paging
	11 Week	Demand Paging
	12 Week	I/O Devices and Device Drivers
	13 Week	Files and Directories
	14 Week	File System