

COURSE OUTLINE OF RECORD

Dept., Number	CSC 3321	Course Title	Operating Systems
Semester Hours	3		
Year	2006	URL (if any):	

Current Catalog Description:

This course is a study of the operating system. Topics include concepts of system structure, memory management, process management, and recovery procedures. Prerequisite: CSC 2331

Textbook:

"Operating Systems Concepts: JAVA", 6th Edition, Author: Silberschatz; John Wiley & Sons, Inc.

Course Goals:

1. Introduce the structures of operating systems.
2. Introduce the concepts of process/thread management, storage management, and file management.
3. Provide students with the ability for operating system programming.

Prerequisites by Topic:

1. Fundamentals of hardware organization
2. Concepts of Computer Programming II
3. Experience of high-level language programming
4. Threads and concurrency

Major Topics Covered in the Course (number of weeks):

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|---|-----|
| 1. Introduction and Professional Ethics | 1 |
| 2. Computer System Structure | 1 |
| 3. Operating System Structures | 1 |
| 4. Processes | 0.5 |
| 5. Threads | 1 |
| 6. CPU Scheduling | 1 |
| 7. Process Synchronization | 1 |
| 8. Deadlocks | 1.5 |
| 9. Memory Management | 1.5 |
| 10. Virtual Memory | 1.5 |
| 11. File-System Interface | 1 |
| 12. I/O Systems | 1 |
| 13. Mass-Storage Structure | 1 |
| 14. Distributed Systems and Security | 1 |

Estimate Curriculum Category Content (Semester hours)

Area	Core	Advanced	Area	Core	Advanced
Algorithms	1		Data Structures	1	
Software Design			Program. Languages		
Comp. Arch.	1				