



Al-AI Bayt University
Prince Hussein bin Abdullah Faculty of Information Technology
Computer Science Department
Operating system

Course Syllabus

Course Title	Operating system	Course Code	901332
Coordinator	Dr. Najah Al-shanableh	Prerequisite(s)	901320 or 902220
E-mail	Najah2746@aabu.edu.jo	Credit Hours	3
Office Hours	Sunday and Tuesday : 9:30 -11:00 am Monday and Wednesday: 11:00 am – 12:00 pm		
Course Is	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective

Course Description:

The goal of this course is to introduce operating systems. We will study process management, threads, memory management, file system organization. If time permits, we will also examine the networking and distributed aspects of OS design.

Course Learning Outcomes (CLO):

Students will (i) become familiar with main concepts of the operating system design: process management, threads, deadlocks, memory management, file system organization and networking, (ii) familiarize themselves with OS system calls, synchronization primitives, race conditions and concurrency in general

Textbook(s)

Title	Operating System Concepts		
Author(s)	A. Silberschatz, P. B. Galvin, and G. Gagne	Publisher	Prentice Hall
Edition	9th Edition	Year	2012

References	
Book Titles (Author(s), Title, Edition, Publisher, Year)	Website URL (if available)
Modern Operating Systems (3rd Edition) (GOAL Series) Andrew S. Tanenbaum	

Tentative Topics Covered	
Week No	Topic
1 & 2	Chapter 1: Computer System Organization
3	Chapter 2: Operating System Structures
4	Chapter 3: Processes
5	Chapter 4: Threads
6 & 7	Chapter 5: Process Synchronization
8 & 9	Chapter 6: CPU Scheduling
10	Chapter 8: Memory
11	Chapter 9: Virtual Memory
12	Chapter 10: Mass-Storage Systems
13	Final Review

Evaluation	
Assessment Tool	Marks
- First Exam*	20
- Second Exam*	20
- Assignments (Reports, Quiz, Seminar, Tutorial, etc.) - Discipline, presence and participation	10
- Lab**	-
- Final Examination	50