

AL-HUSSEIN BIN TALAL UNIVERSITY

Faculty of Information Technology
Department of Computer Science



Subject Outline (Syllabus) Advanced Operating Systems Spring 2017

Dr. I. Bilal Al-Qudah

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Subject presentation:

The subject presents the most important concepts of operating systems which should be known by everyone designing and implementing advanced computer systems. The topics which are included describe the role and function of basic elements of modern operating systems and the implementations of these concepts in contemporary operating systems to give view on pros and cons of each of them.

Subject number: **0612331**
Number of credit hours: **3**
Duration: **16 weeks, 48 hours in total (including two 1-hour midterm exams)**

Tentative Schedule:

Week	Major topics
(1&2)	Process synchronization
(3&4)	Deadlocks
(5&6)	Memory management
(7&8)	Virtual /memory
(9&10)	Protection
(11&12)	Security
(13&14)	Distributed Systems
	Final Examination

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Assessment:

Assessment:	Score	Date	Time
Assignment 1	15%	---	Lecture time
Assignment 2	15%	---	Lecture time
Mid-term Exam	30%	---	Lecture time
Final Exam	40%	Will be advised later	Will be advised later

Additional notes:

- *There are no extra credit points, make-ups*, regards, or reworks in this class.*
- *Do not arrive late to class. Late arrivals are disruptive.*
- *Cell phones should be switched off or on silent during ALL class activities.*
**Make-up exams will be offered for valid reasons only (not recommended).*

Student attendance policy:

The faculty of Information Technology expects that the students will attend all scheduled sessions for a subject in which they are enrolled. In other words, lecture attendance is mandatory. If the student was absent for more than the percentage allowed by the AHU university policy, the student will be deprived from the course and zero mark will be assigned. If the student missed his class, it is his responsibility to find out about any announcements or assignments that he may have missed.

Text Book(s) and Supporting Materials:

Text Book(s)

- “Operating systems concept (9th edition)” by A. Silberschatz and P. Galvin.

References:

Students will be expected to give the same attention to these references as given to the course text book(s)

- “Operating systems” by J. O’Gorman. ISBN 0-333-80288-8, Macmillan Press, 2000.
- Fundamentals of operating systems (4th edition), ISBN 0-333-46987-9, Macmillan Press, 1988.
- Operating Systems: Internals and Design Principles by William Stallings , latest copy