Course Syllabus

Course number	CS 4440
Course name	Introduction to Operating Systems
Credits	3 units
Contact hours	3 hours/week
Text book	
Course Information	a) Catalog Description: Resource, memory and process management; concurrent processing; networking and distributed systems. Lecture 4 hours. b) Required/Elective: This course is required in the BS program.
Course Goals	The Student Learning Outcomes that are addressed by the course are: SLO #4. Students will have a fundamental understanding of computer systems. Other outcomes of instruction: At the end of the course, students are able to · Familiar with the main concepts of modern Operating Systems · Familiar with interrelationships among users and hardware components · Familiar with process and threads management · Familiar with CPU scheduling, · Familiar with process synchronization and deadlocks handling · Familiar with memory management and storage management
Brief list of topics to be covered	1) Introduction to Operating System 2) Overview of the operating system components 3) Operating system Structures 4) Process Management 5) Processes 6) Threads 7) CPU Scheduling 8) process Synchronization 9) Deadlocks 10) Memory Management 11) Basic Memory Management 12) Virtual Memory Management 13) Storage Management 14) File System Interface

15) File System Implementation
16) Mass Storage Structure
17) I/O Systems

Laboratory Projects No lab component for this course

Grading Policy

x >= 95 A

90 <= x <= 94 A-

87 <= x <= 89 B+

84 <= x <= 86 B

80 <= x <= 83 B-

77 <= x <= 79 C+

74 <= x <= 76 C

70 <= x <= 73 C-

67 <= x <= 69 D+

64 <= x <= 66 D

60 <= x <= 63 Dx

<= 59 F

Academic Integrity Cheating will not be tolerated. Cheating on any assignment or exam will be taken seriously. All parties involved will receive a grade of F for the course and are reported to the proper authorities.

ADA Statement Reasonable accommodation will be provided to any student who is registered with the Office of Students with Disabilities and requests needed accommodation.