



CSET 223-Computer Systems Management  
Second Semester 2009 (082)

**2009 Catalog Description: (2 2 3)** CSET 223: This course introduces the computer system administration including login, file system, security, print services, network architecture, performance monitoring and event viewing. In the lab specific environment like Windows NT/2000 will be used to give the students hands-on experience.  
Prerequisite: CSET 222.

**Textbook:** Understanding Operating Systems by Flynn & McHoes;  
**Laboratory manuals:** HBCC, Computer System Management, CSET 223 manuals. (LM)  
**Reference:** Operating Systems by William Stallings  
**Coordinator:** Dr. Lawan Ahmad Mohammad.  
**Instructor:**

**Goals:** The goal of this course is to discuss Computer Systems Management topics. This course is an extension of Operating Systems course. The students will learn the file management techniques, security issues and Client/Server Architecture.

**Topics:**

1. Introduction to Computer Systems (3 classes)
2. Review of Operating Systems (2 classes)
3. File Management (8 classes)
4. Client/Server and Clusters (6 Classes)
5. Remote Filing (4 classes)
6. Protection & Security Issues (5 classes)
7. Major Exams (2 classes)

**Weekly schedule:** Attached.

**Assessment Policy:**

**Weighting:**

**Letter Grading Scale:**

Practical	10%	0% < 60% F
Homework	5%	60 % < 65% D
Class Quizzes	5 %	65% < 70% D+
Lab exam I.	5%	70% < 75% C
Lab exam II	5%	75% < 80% C+
First Major exam.	20%	80% < 85% B
Second Major exam.	20%	85% < 90% B+
Final examination	<u>30%</u>	90% < 95% A
	100%	95% to 100% A+

Some clustering and adjustment of threshold values may be applied depending on final results statistics of discrete groups.

**HBCC Rules and Regulations:**

1. **Attendance:** students are expected to attend all meeting of their courses. In the case of any absence, students are responsible for course content during their absence.
2. **Absenteeism:** a record is consistently compiled and updated. If the student has been absent too many times without a valid excuse, he will be excluded from the college.
3. **Smoke free college:** smoking is prohibited in all college facilities.
4. **Behavior:** students who engage in behavior that disrupts the learning environment for others may be subjected to disciplinary action under the KFUPM code.
5. **Exam cheating:** it is not permitted to speak during the exam. Failure to abide by this rule will result in their exam marks being cancelled.

**Prepared by:** \_\_\_\_\_

**Date:** MAY 13, 2009

**Approved by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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Week no.	Contents	Practical / support activities	Assessment
1	<b><u>Introduction to Computer Systems</u></b> Basic Elements  Processor Registers, Instruction Execution, Memory Hierarchy	NO LAB	
2	<b><u>Introduction to Computer Systems (Contd..)</u></b> I/O Communication Techniques  <b><u>Review of OS</u></b> Operating System Objectives & Functions	<b>Experiment 1</b> Installing & Configuring Windows 2000 Server	HW # 1
3	Characteristics of Modern Operating Systems and their architecture  <b><u>File Management</u></b> File Organization	<b>Experiment 2</b> Working with Windows 2000 File System	Class-Quiz # 1
4	<b><u>File Management (Contd..)</u></b> File Directories  File Sharing, Record Blocking	<b>Experiment 3</b> Managing Windows 2000 Storage, Shared Folders	HW # 2
5	<b><u>File Management (Contd..)</u></b> Directory Implementation  Low-level File Implementation	<b>Experiment 4</b> Tuning & Monitoring Windows 2000 Network I	Class-Quiz # 2
6	<b><u>File Management (Contd..)</u></b> Secondary Storage Management  Unix File Management	<b>Experiment 5</b> Tuning & Monitoring Windows 2000 Network II .	
<b>Major Exam I</b>			
7	<b><u>File Management (Contd..)</u></b> Windows 2000 File System  Revision	<b>Experiment 6</b> Working with Active Directory I	
8	<b><u>Client/Server &amp; Clusters</u></b> Client/Server Computing  Client Server Applications	Lab Exam I	HW # 3
9	<b><u>Client/Server &amp; Clusters (Contd..)</u></b> Classes of Client Server Applications  Message Passing	<b>Experiment 7</b> Working with Active Directory II	Class-Quiz # 3
10	<b><u>Client/Server &amp; Clusters (Contd..)</u></b> Clusters  Windows 2000 Cluster Server	<b>Experiment 8</b> Configuring & Troubleshooting Network Print Services	
11	<b><u>Remote Files</u></b> Sharing Information Across the Network  Remote Disk Systems	<b>Experiment 9</b> Working with Clusters	HW # 4

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12	<b><u>Remote Files (Contd..)</u></b> Remote File Systems  File Level Caching	<b>Experiment 10</b> Working with Remote Files	HW # 5
<b>Major Exam II</b>			
13	<b><u>Protection &amp; Security</u></b> Security Threats  Protection	<b>Experiment 11</b> Working with Windows 2000 Security Systems	Class-Quiz # 4
14	<b><u>Protection &amp; Security (Contd..)</u></b> Intruders, Malicious Software  Trusted Systems	<b>Lab Exam II</b>	
15	Revision	Revision	
16	Final Examination		

Examination Summary:

First major exam will be conducted in week 6.

Second major exam will be conducted in week 12.

Lab exams will be conducted in week 7 and 14.