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Fall 9-1-2005

# CRT 215T.01: Server Technologies

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*The University Of Montana*

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**THE UNIVERSITY OF MONTANA - MISSOULA**  
**COLLEGE OF TECHNOLOGY**  
**Department of Applied Computing and Electronics Technology**  
**COURSE SYLLABUS**

**CRT215T Server Technologies**

**TERM:** Fall, 2005

**CREDITS:** 3

**PREREQUISITES:** CRT210T Advanced Operating Systems

**CLASS MEETINGS:** MW 5-6 pm, Room: HB04

**LAB MEETINGS:** W 6-8 pm, Room: HB04

**FACULTY:** Shannon Haish      s\_haish@hotmail.com

**OFFICE HOURS:** By Appointment.

**COURSE DESCRIPTION:**

Examines server technologies commonly used in local area networking. Topics include installation, administration, storage, application services, network services, security, reliability, and availability.

**REQUIRED MATERIALS:**

*ALS Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Environment*, and *ALS Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Environment Lab Manual*. Microsoft Press, McGraw-Hill, 2004

*Microsoft Windows 2003 Server* (Evaluation version from Text Book Bundle or Full version available free of charge through the Campus MSDNAA)

Removable Hard Drive System:

IDE Hard Drive (minimum 5GB)

*StarTech.Com* Drive Drawer Caddy

**RECOMMENDED READING TEXT:**

*Mastering Windows 2003 Server*, Mark Minasi et al, Sybex, 2003

**COURSE OBJECTIVES:**

Upon completion of this course:

1. Student will install a server based operating system
2. Student will install, configure, and administer directory services
3. Student will install, configure, and troubleshoot access to server resources
4. Student will install, configure, and administer web and remote desktop services
5. Student will create and administer user, group, and computer accounts
6. Student will configure and troubleshoot hardware devices and drivers
7. Student will manage, monitor, and optimize system performance reliability, and availability
8. Student will manage, configure, and troubleshoot storage
9. Student will implement, monitor, and troubleshoot security
10. Student will manage, configure, and troubleshoot printing resources
11. Student will administer, manage, and deploy server licensing and operating system updates.

**EVALUATION PROCEDURES:**

Grades will be assessed as follows:

Assessment:

Lab Attendance and Assignments

20%

Written Exams

30%

Application Exams

30%

Comprehensive Final Exam

20%

Grading Scale:

90-100%

A

80-89%

B

75-79%

C

70-74%

D

**EXAMS, LABS, AND ASSIGNMENTS:**

All exams are to be taken on the assigned date and time. Assignments are due at the start of class on the assigned date and time. "Makeup" exams and assignments will be accepted at the instructor's discretion and allowed only in

extraordinary situations. Weekly lab projects are scheduled for Wednesdays. Attendance will be taken on lab days.  
**There are no makeup labs!**

**FINAL EXAM:**

Monday, December 12, 2005 5:30-7:30 pm

**OTHER PROCEDURES:**

Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator.

**COURSE OUTLINE:**

- I. Introduction to Server Technologies
- II. Server Installation, configuration, and directory services
- III. Server Administration
- IV. Monitoring and Optimization
- V. Data Integrity
- VI. Operating system updates and licensing
- VII. Administering users, groups, and computers
- VIII. Administering file sharing services
- IX. Administering print services
- X. Hardware Management
- XI. Storage Management