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IS 495.02: Fundamentals of Network Administration

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COURSE SYLLABUS
IS 495
Fundamentals of Network Administration
Spring 2003

Instructor:
> Ryan Wright, GBB 338, 243-6620, ryan.wright@business.umt.edu

Scheduled Time:
> Tues 3:40pm – 6:30pm
> Lab Hours: Thurs 3:40pm – 6:30pm

Meeting Place:
> GBB 206

Course Description:
> This current topics course will focus on the design, installation, configuration, and operation of local area networks. This course provides students with the knowledge and skills necessary to install and configure a stand-alone and client computers that are part of a workgroup or domain. We will also discuss alternate local area network methodologies including Microsoft Windows 2000, Novell NetWare, UNIX, Windows NT, and Windows 98. This course will utilize the networking lab in GBB 206. Every class will include a lecture or discussion on network topics along with a hands-on lab demonstrating the concepts.

Credits:
> This three credit course can be used to meet the IS option degree requirements.

Textbook:
> *Mastering Windows 2000 Server* by Mark Minasi, Sybex, ISBN: 0-7821-2774-6

Course Objectives:
- ? To expose students to introductory networking concepts in the information technology industry.
- ? To expose students to the impact of network technology on a business operation.
- ? To give students hands-on experience installing, configuring and operating computer hardware and software in a network environment.
- ? To allow students to implement information systems theories and practices in a lab environment that simulates real business scenarios.
- ? To enable students to develop network plans and implement and manage those plans in a laboratory setting.
- ? To expose students to computer hardware concepts (hard drives, RAM, CD-ROM).

Course's Relationships to School of Business' Shared Values
- ? **Lifelong learning skills:** students learn that network and information technology are ever-changing and it is necessary to stay current.
- ? **Workplace knowledge and skills:** the course covers important networking and telecommunications concepts that link workstations in networks.
- ? **Integration of technology:** the entire course integrates networking hardware and software with information needs of organizations.
- ? **Business community connection:** guest speakers from the community and elsewhere on campus assist students' understanding of application of telecommunications technology.

Prerequisites:

This course requires students to have a basic knowledge of computers and networks that can come from courses offered in the Computer Science Department, Information Systems Department, or through work experience.

Grading:

Student performance will be based on a combination of quizzes, exams, class participation, and attendance. These four areas will be weighted equally with regards to the final grade. Students wishing to take this class for graduate credit will be required to prepare a research paper on an advanced networking topic. The research paper should address the organizational issues for implementing and operating a network to meet the information technology needs of a business or organization. Students should research the issues associated with directory services, network infrastructure, and network security for the selected topic. The paper should be written in APA format and show that the student has synthesized the research material into a document that makes recommendations for successful implementation of a network system for a business or organization. Students are required to get the research topic approved by the instructor.

Course Topics:
- ? Introduction to Server Hardware
- ? Introduction to Network Concepts
- ? Discuss alternative network options such as peer to peer and server-based networks
- ? Design and configure a domain environment.
- ? Connect clients to a network.
- ? Introduce the concepts involved with accessing and administrating data.
- ? Introduction to network security concepts
- ? Design and implement disaster protection.

Microsoft Certification Preparation:

This course will cover the certification topics of Implementing Microsoft Windows 2000 Professional and Server. Students will be presented the foundation materials along with a list of additional outside readings to help prepare them for the following certification exams:
- ? Exam 70-210: Microsoft Windows 2000 Professional
- ? Exam 70-215: Microsoft Windows 2000 Server