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ITS 212T.01: Network Operating Systems - Server Applications

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The University Of Montana – Missoula College
Department of Applied Computing and Electronics
Course Syllabus

ITS212T Network Operating Systems – Server Applications

Credits: 3

Prerequisites: ITS150 – CCNA 1 and ITS210 – Network Operating Systems – Desktop (completed or in progress)

Last Updated: Autumn 2013

Meetings:

Classroom: MF 8:10-9:00, Room: HB04

Lab: W 8:10-10:00 HB04

The final exam for this course will be held on Wednesday, December 11, 2013 in HB04 from 10:10 a.m. to 12:10 p.m.

Faculty Contact:

Dianne Burke

Office Hours (Autumn):

E-mail: dianne.burke@umontana.edu

Tu/Th 10:00 a.m. – 11:30 a.m. AD17A

Contact me for appointments at other times.

Please use your official UM email address for correspondence. University policy prevents staff from responding to personal email accounts (Yahoo, Hotmail, etc.)

When emailing, make sure to send email to the account I listed above. I am also a student here at UM (working on a doctorate in Education Leadership), and occasionally students will send email to my student account. I don't monitor my student account daily, and I don't want to miss important messages. One way to make sure I receive the message is to use the Quickmail interface in the upper right corner of the Moodle shell.

Course Description, Objectives, and Textbooks

Course Description:

ITS 212 examines server applications commonly used in local area networking. Topics include installation and administration of file systems, web services, terminal services, high availability solutions (including Hyper-V and iSCSI), and printing.

Course Structure:

The course combines classroom based activities with independent, self-directed, lab experiences. The lab component of the course is intended to provide students the opportunity to apply server technologies commonly used by professionals in the I.T. field.

This is a major-specific course for students with a networking emphasis. My goal is to give you experience with server structure and management so that when you enter the

workforce, you already have skills that set you apart from other candidates who only have a textbook understanding of servers. I emphasize real-world application of the material so you have a practical appreciation of the information.

Course Objectives:

1. Students will be familiar with server planning, deployment, and management tasks. (Chapters 1, 2)
2. Students will manage, configure, and troubleshoot disk storage systems. (Chapter 3)
3. Students will manage, configure, and troubleshoot printing resources. (Chapter 4)
4. Students will install, configure, and administer web services. (Chapters 5 and 6)
5. Students will install, configure, and administer remote desktop services. (Chapters 8, 9, and 10)
6. Students will utilize server management tools and utilities. (Chapters 1-10)

Required Materials:

Windows Server 2008 Applications Infrastructure Configuration Textbook with MOAC labs online. Zacker, Craig, Wiley & Sons, 2009. ISBN 978-0-470-87503-2

Course Structure, Assessment, and Grading

Course Organization:

Unit 1 – Overview and Server Deployment

Chapter 1: Deploying a Windows Server 2008 Application Server.
Chapter 2: Deploying a File Server.

Unit 2 – File and Print Services

Chapter 3: Using the File Services Role.
Chapter 4: Deploying Fax and Print Servers.

Unit 3 – IIS/Web Services

Chapter 5: Deploying IIS Services.
Chapter 6: Securing Web Services.

Unit 4 – Terminal Services

Chapter 8: Using Terminal Services.
Chapter 9: Configuring Terminal Services Clients.
Chapter 10: Using the Terminal Services Gateway.

Course Schedule:

In general, we'll spend about a week and a half on each chapter.

Evaluation Procedures:

Grades will be assessed as follows:

Assessment:	Weight:
Attendance	10%
Review Questions and Research	25%
Pre-Tests, Written, Skills, and Troubleshooting Exams	50%
Comprehensive Final Exam	15%

Grading Scale:	Letter Grade:
90-100%	A
80-89%	B
70-79%	C
60-69%	D

Attendance:

I take attendance and it is part of your grade. It's in your best interest to come to class. Material for exams comes directly from the lectures.

Review Questions:

As we cover each chapter in the textbook I will assign review questions over the material. In addition, there are review questions throughout the lab instructions. These will be assigned as we work through each chapter.

You'll usually have at least 1 week notice on all review questions. All submissions will be made to Moodle, through the appropriate interface (often in the form of a non-timed online quiz so I can simplify the grading). Your work must be submitted by the due date/time.

Research Assignments:

We will have frequent research assignments where you'll be expected to research and report on a given subject. You will turn in a written paper and you'll need to provide three

citations to back up your answer. Research assignments are usually about half a page long and should be written with good grammar and complete sentences. Your citations should be URLs or other material specific enough for me to see the source of your answer.

You'll usually have 1 week notice on all research assignments. All submissions will be made to Moodle, must be in PDF format, and are due at the start of the class period. Since we review the answers as a class on the due date, late work is not accepted.

Pre-Tests:

The textbook is a main reference for this course and I expect you to read it. You'll get much more out of the lectures and the labs if you read the material *before* we cover it in class. To help you with this, we'll have a pre-test before I begin the lecture on a new chapter. The pre-test usually has only two questions, and is designed to assess whether you've read the chapter or not. The questions aren't detail-oriented – they identify big-picture concepts.

You'll usually have a few days' notice for a pre-test. The test is given at the start of class and will be handwritten. Since we review the answers as a class on the test date, late work is not accepted.

Written, Skills, Troubleshooting, and Final Exams:

We will have at least three written exams throughout the semester, one for each unit. Depending on our progress, our last unit may only be tested on the final exam.

There will be at least one skills exam, where you'll be asked to perform certain tasks and demonstrate successful completion of the activity. We'll go over this in detail prior to the first skills exam.

There may be a troubleshooting exam, where you'll be given a 'broken' server and asked to identify and/or correct problems. You'll be graded on your thought process and approach to troubleshooting as well as whether your server works at the end of the exam. We'll go over this in detail prior to a troubleshooting exam.

The final exam is comprehensive and will be given in two parts – a written section and a skills section. I usually offer the skills portion of the exam during the last week of classes rather than during finals week. The written portion of the exam will be held during finals week.

Due Dates/Times:

All exams are to be taken on the assigned date and time unless *prior* arrangements are made. Assignments are due at the start of class on the assigned date and time. **Late work is not accepted.**

Additional Course Information

Naming and Submitting Assignments:

For assignments that you upload to the Moodle shell, please use a word processor and submit in PDF format. (Please see the Course Information section of the Moodle Shell for information on generating PDFs.) Each written assignment should contain your name and section in the upper right corner of your paper. Save and name your documents using the following convention:

Lastname Firstname ITS212 Ax.y (where Ax.y is the assignment, such as A1.1, A2.3, etc.)

Students frequently contact me, explaining that they uploaded the wrong assignment or need to go back and correct something. If this happens, you can go into the Moodle shell and delete your submission, then upload the corrected version. This is available to you any time before the assignment deadline.

Professionalism:

All work performed in the course should be completed in a professional manner and be of business quality. Think of this semester as a dry run for your life in the business world. In addition to doing your 'job' correctly and on time, demonstrate professionalism through your attention to detail and in particular, through your efforts in all written communications. Use complete sentences, avoid slang and texting shorthand (no lols, please), and use proper grammar. Employers often ask for writing samples or give you a writing test as part of the application/interview process, so use your assignments as an opportunity to practice this skill.

Cell Phone and other Electronic Communication Devices Policy:

All electronic communication devices must be turned off and put away prior to the start of class.

Since this class is held in HB04, you may be tempted to do non-classroom related activities during lecture and lab. Please be respectful and do not play games, answer email, browse Facebook, or use the Internet for non-class related activities. If you'd rather play a game, you're welcome to go to the commons instead.

Unless otherwise noted, I ask that you turn off monitors and put aside keyboards and mice at the beginning of lecture.

Changes to Syllabi:

I reserve the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances. If changes are made to the syllabus, amended

copies will be dated and made available to the class. I will make every effort to limit any changes after the start of the semester.

Online Information:

Even though this is a face-to-face course, I will use the online material to supplement class meetings and lab sessions. At times, I will use audiocasts and webcasts to supplement reading materials. An Internet connection with reasonable (DSL) bandwidth is recommended.

Class materials will generally be available at the start of each week. Expect lessons to consist of a mixture of reading material, review questions, discussion boards, audiocasts, webcasts, and research activities.

Technical support is available through <http://umonline.umd.edu> and by telephone at 406.243.4357 for the IT Central Help Desk and 406.243.6394 for Moodle-specific questions.

University Regulations

Academic Conduct:

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at: http://life.umd.edu/VPSA/student_conduct.php

Using the Web to research materials and concepts is an integral part of learning in the twenty-first century. Studying with other students is a productive method of learning. A certain amount of collaborating on concepts with other students and using resources found on the Internet in an assignment is recommended. However, copy and paste is not acceptable. It is expected that each student will input his/her assignment into the computer, and each student must be able to explain answers to any assignment turned in. In other words, *type or write your own work, even if you collaborate with others on homework*. Collaboration on exams is strictly forbidden.

Despite this warning, I run into situations every semester where students work together and submit identical work. Please don't get into this situation!

Plagiarism:

Plagiarism will not be tolerated. If I suspect plagiarism, I will notify both the student(s) and the department chair as I investigate the situation. Assignments involving plagiarism will receive a 0. That said, I encourage research from a variety of sources, including discussions with your classmates. Make sure as you complete your assignments that everything is in your own words. Please don't copy material from other students. For projects with an assigned partner you are permitted to turn in collaborative work.

Disability Accommodations Policy:

Students with documented disabilities will receive appropriate accommodations in this course when requested in a timely manner. Please be prepared to provide a letter from the DSS Coordinator and a description of the requested accommodation after class or by appointment with me. Please submit your requests early in the semester or even before the start of class. Accommodations will be available after we've discussed your request, but will not be available retroactively. I want each student to succeed, and putting accommodations in place as soon as possible helps make that happen.