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ITS 210T.01: Network Operating Systems - Desktop - Face to Face Sections

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

ITS210T Network Operating Systems – Desktop – Face-to-Face Sections

Semester Credits: 3

Prerequisites: ITS150 - CCNA 1

Last Updated: Autumn 2013

Meetings:

In the autumn session this is a face-to-face course which meets for lecture on MF from 9:10 a.m. to 10:00 a.m. in HB11. Students in section 1 of the class will meet for lab on Tu from 8:10 a.m. to 10:00 a.m. in HB04. Students in section 2 of the class will meet for lab on Th from 8:10 a.m. to 10:00 a.m. in HB04. We do not meet at all on Wednesdays.

The final exam for this course will be held on Thursday, December 12, 2013 in HB11 from 8:00 a.m. to 10:00 a.m. Doughnuts will be provided, but you're responsible for your own coffee ☺.

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:

The class provides an in-depth study of a secure, multi-user, client-based network operating system. Topics include installation, administration of resources, performance, network services, and security.

Course Overview:

Network Operating Systems - Desktop builds upon material introduced in CRT 112 Operating Systems Fundamentals and ITS 150 Networking Basics. Foundational concepts involving operating system installation, configuration, management, administration, security, and

optimization are examined using Windows 7. The course combines classroom-based activities with instructor-led lab exercises. The lab component of the course is intended to provide students the opportunity to apply technologies commonly used by professionals in the I.T. field. Objectives from the course provide contemporary skills in computer support applicable to all professional fields.

Course Objectives:

Upon completion of this course:

1. Students will install a secure, multi-user, client-based network operating system. (Chapters 2 and 3)
2. Students will implement and administer operating system resources. (Chapters 4 and 6)
3. Students will understand and implement share and NTFS permissions. (Chapters 4 and 6)
4. Students will configure and troubleshoot workstation performance measurement/monitoring. (Chapter 8)
5. Students will understand, configure, and troubleshoot network connectivity. (Chapter 5)

Required Materials:

Windows 7 Configuration – Exam 70-680. Zacker, Craig. Wiley & Sons. ISBN : 0470875097

MOAC Lab Online to accompany 70-680: Windows 7 Configuration. Wiley & Sons. ISBN: 0470879777

Virtual PC Virtualization Software (free download from Microsoft Corp.)

USB 2.0 Thumb Drive or Electronic Storage Drive (minimum 16 GB)

Course Structure, Assessment, and Grading

Topic Outline:

UNIT I - Overview, Installation, and Deployment

Chapter 1: Introducing Windows 7

Chapter 2: Installing Windows 7

Chapter 3: Deploying Windows 7

UNIT II – Workstation and Network Resources

Chapter 4: Working with Disks and Devices

Chapter 5: Connecting to a Network

Chapter 6: Sharing Resources

UNIT III – Performance, User Account Control, and Security

Chapter 8: Managing and Monitoring Windows 7 Performance

Course Schedule:

In general, we'll work through a chapter in about two weeks.

Evaluation Procedures:

Grades will be assessed as follows:

Assessment	Weight:
Attendance	10%
Review Questions	10%
Research Assignments	10%
Pre-Tests, Quizzes, and Written Exams	30%
Skills Exams	15%
Comprehensive Final Exam	25%

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. I cover quite a bit of information during the lab sessions.

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.

If you choose to do so, you may drop one set of text/lab review assignments. For example, we will cover a total of 7 chapters during the semester, and you have the option to turn in only 6 text/lab review assignments and not be penalized. If you turn in all 7 assignments, I'll give extra credit. You do not have to coordinate this with me – simply don't turn in the assignment you want to skip. You'll receive a 0 in the gradebook (I know this makes you uncomfortable), but I will drop the lowest grade at the end of the semester so you won't be penalized.

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). Since we review the answers as a class on the due date, late work is not accepted.

Research Assignments:

We will have frequent research assignments where you'll be expected to find the answer to a question or scenario. You will turn in a written 'report' answering the question and you'll need to provide three citations to back up your answer. Research 'reports' 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 at least 1 week notice on all research assignments. All submissions will be made to Moodle, and must be in PDF format. Since we review the answers as a class on the due date, late work is not accepted.

You will be allowed to drop 1 research assignment during the semester. The same conditions apply as I covered in the review questions.

Chapter Pre-Tests:

To make sure that you've read the textbook ahead of time and are prepared to learn the material, I will have you take a chapter pre-test before I lecture on a particular chapter. This won't be a detailed quiz – I'll ask 2 or 3 broad questions about the material to see if you understood the high points. Please look in the Exemplars area of the Course Information section to view sample questions and answers. Pre-tests will be taken at the start of the class period and will be paper and pen/pencil quizzes. To help you adapt to this assessment, I will offer the pre-test for Chapter 1 *after* I've completed the lecture for that chapter.

Since we review the answers as a class on the test date, late work is not accepted.

You will be allowed to drop 1 Chapter Summary assignment during the semester. The same conditions apply as I covered in the review questions.

Exams:

We will have three written exams throughout the semester, one for each unit. I'll allow you to drop the written exam with the lowest grade. (Unlike the review questions, you don't get extra credit for taking all of the exams. You just get an attagirl or an attaboy.)

There will be skills exams where you'll be asked to perform certain tasks and demonstrate that you've successfully completed the activities. Some of these will take place during your lab sessions, and others will take place outside of class. We'll go over this in detail prior to the first skills exam so you'll know what to expect. You must complete all skills exams – each skills exam counts toward your final grade.

The final exam is comprehensive and will be given in two parts – a written section and a skills section. The skills component will be a Windows 7 Virtual Machine that you will

build and customize. This will be due the last week of the semester. You will have approximately 5 weeks to work on your virtual machines, and we will go over this assignment in detail during the semester. The written portion of the exam will be held during finals week as noted on page 1 of the syllabus.

Due Dates/Times:

All exams are to be taken on the assigned date and time unless *prior* arrangements are made. Assignments are due by the indicated date and time. I understand that many of you juggle school, work, and family responsibilities, so I've implemented the "drop a review set/research assignment/exam" policy. This gives you some latitude, and should help keep your stress level manageable during the semester.

Unless you're intentionally dropping an assignment, stay on top of your due dates. 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 ITS210 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 the lab portion of ITS 210 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.

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:

For online sections, the course is offered entirely online through UMLearn. Face-to-face sections will use the online material to supplement class meetings and lab sessions. Audiocasts will be used 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.umt.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.umt.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.