NET 2200 – Microcomputer Operating Systems

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Office Hours: By appointment
Class Times: MWF 7:30am – 8:20am

Course Description

Study of hardware and software components through managing programs, directories, files, and disks. Includes integrating applications, and customizing the operating system.

Course Lab Fees

Course fees in NET 2200 are designed to cover the costs of computer hardware and software and consumable materials and supplies.

Course Outcomes

At the conclusion of this course students will be able to complete or have an understanding of the following:

- Basic computer hardware components
- Install OS X, Windows 10, and Linux
- Customize and optimize Windows 10, OS X, and Linux
- Use the Windows 10, OS X, and Linux command line interfaces
- Manage files, directories and permissions in Windows 10, and Linux
- Manipulate data files in Windows 10, OS X, and Linux
- Virtualization vs Emulation
- Basic networking and security concepts in all operating systems

Textbooks

Windows 10 In Depth
Author: Brian Knittel, Paul McFedries
Publisher: Que Publishing
Pub. Date: September 27, 2015
Print ISBN-13: 978-0789754745
SafariBooks Link: http://proquest.safaribooksonline.com/book/operating-systems/9780134121772

Apple Pro Training Series: OS X Support Essentials 10.11 – Apple Pro Training Series: Supporting and Troubleshooting OS X El Capitan
By: Kevin M. White
Publisher: Peachpit Press
Pub. Date: January 1, 2016
Print ISBN-13: 978-0134428208
SafariBooks Link: http://proquest.safaribooksonline.com/book/operating-systems-and-server-administration/mac-os-x/9780134428291

Accommodations for students with disabilities

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary.

For more information about the SSD contact them at 801-626-6413, ssd@weber.edu, or departments.weber.edu/ssd

Class Schedule Overview

Each week, there will be 3 class periods. There will be both lecture and lab time on most days. Each lab assignment will be due Friday of the week after it is discussed in class, unless Friday is a holiday in which the assignment will be a Wednesday submission. All assignments are due at 11:59pm on the date listed.

Assignments

There will be 12 lab assignments over the course of the semester, each assignment will be worth 100pts. There will be ample lab time provided during class to complete the assignments.

Final Project

In addition to the lab assignments, there will be a final project that will serve as your final exam for the course. The final project will be worth 300pts, and will encompass components from all of the assignments. More information about the project is forthcoming.

Grade Scheme

A = 95% or greater	B = 83 to 86.9%	C = 73 to 76.9%	D = 63 to 66.9%
A- = 90 to 94.9%	B- = 80 to 82.9%	C- = 70 to 72.9%	D- = 60 to 62.9%
B+ = 87 to 89.9%	C+ = 77 to 79.9%	D+ = 67 to 69.9%	E = Less than 60%

Extra Credit

I may occasionally give extra credit. Please don't ask for extra credit.

Late Work

Late assignments will be accepted up to two weeks after the due date.

- The first late assignment will be a freebie, no penalty.
- All subsequent late assignments turned in within a week of the due date will receive a 20% penalty on the grade.
- Assignments turned in between one and two weeks late will receive a 30% penalty on the grade.
- Assignments turned in more than two weeks past the due date will not receive credit.

Note: The final project may not be turned in late.

Communication

Please communicate with me primarily via the Canvas messaging system. I will check Canvas messages at least once a day. If you email me directly, please use your @mail.weber.edu account. Regardless of how you contact me, I will do my best to respond in a timely manner.

Time Commitment

As a general rule you should spend at least twice as much time outside of class as you do in class. For this class, this means you should spend about 6 hours outside of class per week. Naturally, some weeks will be lighter, and some heavier.

Tips for Success

One cannot learn all of the material by just reading the text. Practice is critical when learning new software and programming languages. Successful students read the upcoming material ahead of time. They participate actively in class. If you are struggling with any of the material, please don't hesitate to reach out to me for help. The number one thing you can do is ask questions when you don't understand something.

Ethical Conduct

NMT policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: 1) an automatic failing grade for the class and 2) a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct.

Any form of academic dishonesty (cheating, plagiarism, etc.) will not be tolerated. The following is an explanation of cheating as stated in the student code.

1. Cheating, which includes but is not limited to:
   - Copying from another student's test;
   - Using materials during a test not authorized by the person giving the test;
   - Collaborating with any other person during a test without authorization;
   - Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test without authorization of the appropriate University official
   - Bribing any other person to obtain any test;
   - Soliciting or receiving unauthorized information about any test;
   - Substituting for another student or permitting any other person to substitute for oneself to take a test.
2. Plagiarism, which is the unacknowledged (uncited) use of any other person's or group's ideas or work. This includes purchased or borrowed papers;
3. Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit;
4. Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process;
5. Giving, selling, or receiving unauthorized course or test information;
6. Using any unauthorized resource or aid in the preparation or completion of any course work, exercise, or activity;
7. Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions.

Any cheating will result in a failing grade.

Schedule (subject to change)

Date	Topic(s)	Due
Jan 9 & 11	Discuss Syllabus	
Jan 13	VirtualBox instruction, test install	
Jan 16	**Martin Luther King Jr. Holiday (NO CLASS!)**	
Jan 18	OSX History & Installation	
Jan 20		
Jan 23, 25	OSX Optimization & Command Line	
Jan 27		Assignment 1
Jan 30, Feb 1	OSX Security & Networking	
Feb 3		Assignment 2
Feb 6, 8	Windows History & Installation	
Feb 10		Assignment 3
Feb 13, 15	Windows 10 Optimization & Command Line	
Feb 17		Assignment 4
Feb 20	**President's Day (NO CLASS!)**	
Feb 22, 24	Windows 10 Security & Networking	Assignment 5
Feb 27, Mar 1	Windows 10 Troubleshooting	
Mar 3		Assignment 6
Mar 6-10	**Spring Break (NO CLASS!)**	
Mar 13, 15	Virtualization vs Emulation	
Mar 17		Assignment 7
Mar 20, 22	Linux History & Installation	
Mar 24		Assignment 8
Mar 27, 29	Linux Optimization & Command Line	
Mar 31		Assignment 9
Apr 3, 5	Linux Security & Networking	
Apr 7		Assignment 10
Apr 10, 12	Linux Troubleshooting	
Apr 14		Assignment 11
Apr 17, 19, 21	Final Project	Assignment 12 (Apr 21)
Apr 24, 26, 28	No lecture, lab time to work on Final Project	Final Project (Apr 28)