CSIS 1525: Survey of Modern Operating Systems

Spring Semester 2017 – CRN 23228
2:00-3:50 pm Tues/Thurs Meshel Hall 115

Course Syllabus and Objectives

Instructor: James W. Dittrich, M.S., M.C.I.S.
Office: Adjunct Faculty Office (MH 320)
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Office Hours: 4-5:30pm T-Th, or by appointment

Prerequisites
CSIS 1500

Textbook
• Survey of Operating Systems (5th Ed)– Holcombe & Holcombe – ISBN: 978-1-259-61863-5

Other Materials
You should have at least one flash drive (USB 3.0 strongly preferred) for this course, as it will make it easier to move programs back and forth between labs and your own computer, as well as to bring to office hours if you have questions about an assignment. As with any other storage, you should back it up regularly (Dropbox or Google Drive are good cloud-based backups)!

Learning Objectives
- History of Operating Systems
- Various PC Operating Systems
- Computer Security Basics
- Desktop Virtualization
- Workgroup Networking
- Basic OS Troubleshooting

Grading
Your grade is determined from the following sources:

Work	Percentage of Grade
Exams (5)	80% total (Each exam 16% of grade)
Labs (4)	20% total (Each lab assignment 5% of grade)

Topic List and Tentative Calendar

Week	Lecture Topics
1	Review Syllabus, Introduction to Operating Systems
2	Introduction to Operating Systems, Lab Chapter 1
3	Computer Security Basics, Lab Chapter 2, Exam 1
4	Desktop Virtualization, Lab Chapter 3
5	Disk Operating System, Lab Chapter 4
	Exam 2, Chapter 1-4 assigned labs due
6	Windows XP Professional, Lab Chapter 5
7	Student Presentations of Lab for Chapter 5, Exam 3
8	Windows Vista, Win7-Win10, Lab Chapter 6
9	Under the Window Desktop, Lab Chapter 7
10	Linux on the Desktop, Make and use Live CD
11	Ubuntu Server, LAMP, Linux Labs, Exam 4
12	Mac OS X on the Desktop, Chapter 9 Lab
13	More OS X, Chapter 5-8 assigned labs due
14	The Client side of Networking, Chapter 10 Lab
15	Networking Labs, Chapter 9-10 assigned labs due
16	Finals Week - *Final Exam Thursday, May 4th @1300-1500*

Important Dates for Fall 2016 Semester

01/09/17	Spring Term BEGINS
01/15/17	Last day to use Wait List Option for Registration
01/16/17	UNIVERSITY CLOSED (Martin Luther King Day)
01/17/17	Last day to add or change a grading option
01/22/17	Last day to withdraw and receive 100% refund or reduction in charges
03/01/17	Last day for Completing an "I" grade for Fall 2016
03/06/17	Spring Break BEGINS
03/12/17	Spring Break ENDS
03/23/17	Last day to withdraw with a grade of "W"
05/01/17	Final Exams Begin
05/06/17	Spring Term ENDS
09/01/17	Last day for completing an "I" grade for Spring 2017

General Course Policies and Guidelines

Grading

The course grade will be based on the required material:

- 90% will guarantee at least an 'A' for the course,
- 80% will guarantee at least a 'B' for the course,
- 70% will guarantee at least a 'C' for the course, and
- 60% will guarantee at least a 'D' for the course.

Assignment Submission
Most assignments that you write for the class will be submitted via email. When submitting assignments, do the following:

- Submit to the instructor's preferred, correct email address, as above.
- Include your name(s), course number, and the title of the assignment in the subject header.
- Attach all code/documents. If there are issues with the size/number of attachments, please use a zip utility to compress into a single file.

*Assignments that do not follow this protocol **will not be scored**, and you will receive zero credit unless resubmitted.*

Due Dates and Late Assignments
An assignment (including programs and projects) is late if it is not IN MY POSSESSION (either as hardcopy or electronically) by midnight on the due date. Late assignments may be penalized at some percentage (usually 10%) per day late (the weekend counts as one day), and no credit will be given for assignments turned in after solutions have been discussed or handed out. Extenuating circumstances (such as nonfunctional labs) may be recognized if they become a chronic problem.

Attendance
Class attendance is optional, except for students who are receiving VA benefits, or in situations (such as group meetings) where your absence would be detrimental to other students in a group. However, missing class is not an acceptable excuse for failure to complete required material on time. Every lecture will cover material related to assignments and exams, and in general the grades in programming classes are directly related to the number of lectures attended. Material that is presented in class will not be covered again outside of class – if you miss class, it is up to you to find out what was covered and to get the notes from someone else.

Exams
Exams will cover material presented in class and corresponding required sections in the text, and will also usually relate to material covered in the homework. Makeup exams are allowed, but only for compelling and verifiable reasons. I need to be informed as soon as possible if you need to take a makeup (ideally, before the exam is given), and I reserve the right to refuse if too much time has passed since the exam, or if no compelling reason is given.

Office Hours
The best way to get help with an assignment is to stop by my office during regular office hours. Many problems that you might get "stuck" on for hours can usually be fixed with my help within a few minutes.

Email
The best way to reach me with questions outside of office hours is email (james.dittrich+YSU@gmail.com). I will attempt to answer within 48 hours (except for holidays, weekends, and breaks). Items sent to my campus address do NOT get to my mobile devices, and I therefore cannot guarantee prompt responses. There are some things that you can do to help out:

- Include your name and course number in the subject (otherwise it might not make it through the spam filters).
- Be as specific as possible about the question or problem.

• If it is a problem with a program, be sure to attach the source code. However, depending on the type of program and where I happen to be, I may not be able to help right away (my office hours are usually better for getting help with programs).

Most assignments that you write for the class will be submitted via email. When submitting assignments by email, do the same things:

• Include your name, course number, and the number of the assignment in the subject.

• Attach all code/documents. If there are issues with the size/number of attachments, please use a zip utility to compress into a single file.

Class participation

If you do not ask questions in class, you will not get as much out of the class as you could. Your class participation will be based on the instructor's assessment of whether you are regularly involved in the class over the course of the semester.

• *Note:* Class participation could affect your grade if there is a borderline grade decision

• If you receive a failing grade in class, and have missed 25% or more of the classes, you will receive a NAF (Non Attendance Failure) as your final grade

Students with Disabilities

In accordance with University procedures, if you have a documented disability and require accommodations to obtain equal access in this course, please contact me privately to discuss your specific needs. You must be registered with the Center for Student Progress Disability Services, located at 275 Fifth Avenue, and provide a letter of accommodation to verify your eligibility. You can reach CSP Disability Services at 330-941-1372.

Academic Support

The Marion G. Resh Center for Student Progress is a resource on Campus established to help students successfully complete their university experience. Please phone (330) 941-3538 or visit the Center for assistance in tutoring or for individualized assistance with social and academic success. The main Center is located in Kilcawley West below the bookstore.

In accordance with University Procedure, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the Office of Equal Opportunity and Disability Services at the beginning of the semester or when given an assignment for which an accommodation is required.

Collaboration: Ethical/Academic Standards

Academic Honesty

Academic honesty is both expected and required. HELPING fellow students is acceptable, and is actually a very good way to learn the material. COPYING is NOT acceptable, laughably easy to detect, and will result in loss of credit for the assignment, and possibly failure of the course. Follow these guidelines:

• If you receive help with an assignment, then you must acknowledge that help in the documentation (your grade will not be affected unless otherwise announced).

• If you give help to another student, then it is your responsibility to make sure that they fully understand the problem and solution – just giving someone code is worse than no help at all.

• The bottom line: if you are not sure how to approach a problem, or are stuck at some point, PLEASE SEE ME FIRST FOR HELP.

Unless specified otherwise, all exams are closed book (this includes notes, smartphones, etc.). Any suspected cheating on an exam will result in failure for the course.

I strongly encourage you to discuss any topic with anyone. That's the way good science happens. As a professional, you should acknowledge any significant discussions in your homework/projects. However, when the time comes to write the homework, such discussions are no longer appropriate. The solution or program must be your own inspiration (although you may ask the instructor for help in writing or debugging). DO NOT COPY ANOTHER PERSON'S HOMEWORK UNDER ANY CIRCUMSTANCES. To so do is a clear violation of ethical/academic standards and will result in loss of credit for any assignment and possible course failure.

For further information, see the section on Academic Dishonesty in the Undergraduate Bulletin. See also the CSIS Acceptable Use Policy for Lab Standards at:
http://web.ysu.edu/gen/stem/CSIS_Acceptable_Use_Policy_m875.html

Classroom Etiquette
Your fellow students deserve an environment without disruptions to learning. Examples include:

- Talking during lecture
- Printing in labs during lectures
- Texting/social media
- Web surfing
- Cell phone use (please change ringtones to silent)
- Eating or drinking (prohibited in our labs)

If you engage in these activities repetitively, you will be kindly asked to leave.

On the other hand, asking questions during lecture is very strongly encouraged. If you are confused about a topic, chances are that many other people are as well!

Incomplete Grades
Incomplete grades are strongly discouraged. However, an incomplete grade may be assigned under the following conditions:

- The student must request in writing that an incomplete grade be assigned.
- The student's previous work in the course must have been satisfactory.
- The reason(s) must be beyond the student's control, and deemed justifiable by the instructor.

Insufficient time is NOT a justification for an incomplete. Also note that all incompletes must be made up within two months; otherwise, they automatically revert to an F.

The Instructor reserves the right to revise the above flexibly and with notice, based on their own discretion.