



Operating Systems and Networks- Fall 2015

CIS 2229: TR 12:30 -1:50(Tuttleman 403B) Lab: Tuesday: 9:00 - 10::50 SERC 204/206

Instructor: Claudia Pine-Simon

Office: SERC 329

Phone: 215.204.5140

Office Hours: Tuesday/Thursday: 11:00 AM -12:00 PM, Tuesday 3:00-3:30 and by appt.

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Course Objectives: 1. To introduce the basic concepts for understanding and evaluating operating systems and the most important computer architecture issues impacting operating systems and the most important computer architecture issues impacting operating system design, implementation and selection. 2. To introduce basic hardware and software issues and components of networks and network operating systems. 3. To provide experience with the use, installation and configuration of various operating systems. 4. To provide an understanding of the technologies underlying the Internet and the WWW, and provide experience in using these technologies

Prerequisites: Grade of C or better in 1048, CIS 1068 (1073), or an equivalent first-semester programming course in C++, C#, Java or VB.Net Co-requisite CIS 1048.. Co-requisite CIS 2168 (2173)

Required Textbooks:

The Architecture of Computer Hardware and Systems Software , An Information Technology Approach, 5th Edition, Englander, John Wiley and Sons, 2014. ISBN 9781118322635.

E-Book: The Architecture of Computer Hardware and System Software: An Information Technology Approach, 5th Edition, John Wiley and Sons, 2014 can be ordered at:

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP002899.html>

Computer Networking, A top-Down Approach, 6th Edition; Kurose and Ross, Pearson Education, INC., ISBN-13: 978-0-13-285620-1 ISBN-10: 0-13-285620-4 Note: This is also used in 3329 Networking.

Lab Information

Starting Dates: **Labs will start Tuesday. August 25**

Laboratory: Sec 001 SERC 204. **Sec 002** SERC 206:Tuesday: 9:00 PM - 10:50 PM
TA: Phil Riesch: email: tub97026@temple.edu SERC 216
TA: Dustin Hinh email: DustinH@temple.edu

Student Accounts: Students must have an ASTRO account. You will use your username and password for all accounts.

Examinations: There are two exams: a midterm and a final exam. **The midterm exam is Oct. 22. The final exam is scheduled on Thursday, Dec.10, in Room 403B, 10:30-12:30.** These exams are closed book. They will consist of multiple choice, matching, Short answer and essay type questions. There will a review before each exam. Make-up tests will not be permitted except under very unusual circumstances. Exams require a legitimate note for the missed attendance. Each case will be handled on an individual basis. Students who miss the final exam and have not made alternative arrangements with me before I turn in the grades will receive an F.

Quizzes: There are several quizzes throughout the semester. **There are no make-up quizzes.** Your lowest quiz grade will be dropped.

Class Participation and Attendance:

Final Grade: will be based on the weighted average of

Course Work: 75% (Homework, quizzes, problem assignments & class participation :20%) + Exams: 80%)

Lab Assignments: 25%

Grading Scale:

	100 -- 92	A	90 -- 91	A-	
88 - 89	B+	82 -- 87	B	80 - 81	B-
78 - 79	C+	72 -- 77	C	70 - 71	C-
68 - 69	D+	62 - 67	D	60 - 61	D-
	59- 0	F			

Students who simply "drop out" of class without formally withdrawing will receive a grade of 'F'

Note: There will be no I's given.

Class Participation and Attendance: Class attendance is mandatory. Please email me before class if you have a hardship that will result in your absence. Class participation and attendance are important and can affect your final grade.

Long Term Absence: If you have some special circumstance (house burned down) and you cannot attend classes, please see your advisor immediately for guidance. I cannot help if you just show up for the final or email me the last week of classes.

Disabilities: Any student who has a need for accommodation based on the impact of a disability should contact me privately to discuss the specific situation as soon as possible. Contact Disability Resources at 215-204-1280

Student Responsibilities:

Students are responsible for reading all assigned text materials and handouts. Students are expected to accomplish all the assigned laboratory projects using these facilities. Some assignments may require use of CIS department Unix systems. Accounts will be provided for this purpose as necessary. Student groups will also be assigned computer workstations in room CC207 for some operating systems and network projects.

LABS: Students are responsible for keeping track of labs. **Students must make sure that correct credit has been given after the completion of each lab.** Lab grades will not be changed at the end of the semester.

Office visits, voice mail and emails are encouraged for communication with instructor.

IMPORTANT UNIVERSITY DATES

Saturday, August 1 - Sunday, August 23

Monday, August 24

Monday, August 31
Friday, September 4
Monday, September 7
Friday, September 18
Monday, September 28

Monday, October 12

Tuesday, October 13

Monday, October 19
Tuesday, October 20
Wednesday, October 21
Wednesday, October 28
Monday, November 9
Monday, November 23 - Wednesday, November 25
Thursday, November 26 -

Sunday, November 29

Monday, December 7
Tuesday, December 8 -

Wednesday, December 9
Thursday, December 10 -

Wednesday, December 16
Thursday, December 17
Friday, December 18 at 11:59PM (ET)

Early Term Start Courses

Full Term 16-week Courses and 7-week Courses (7A) begin

Last day to add or drop a 7-week (7A) course
Last day to add or drop a Full Term 16-week course
Labor Day (no classes held)
Last day to withdraw from a 7-week (7A) course
Undergraduate [midterm progress ratings](#) begin
7-week Courses (7A) end

Undergraduate [midterm progress ratings](#) end
7-week Course (7B) begin

Last day to add or drop a 7-week (7B) course
Last day to withdraw from a Full Term 16-week course
Final grading for Full Term 16-week Courses begins
Priority registration for Spring 2016 begins
Last day to withdraw from a 7-week (7B) course
Fall Break (no classes held)

Thanksgiving Holiday (no classes held)

Full Term 16-week Courses and 7-week Courses (7B) end

Study Days

Final Exams

Diploma Date

Final grading for Full Term 16-week Courses ends

Important Web SiteBLACKBOARD: <http://blackboard.temple.edu>. Blackboard will be used for course management and student access to

course materials. It is the student responsibility to get access to this site. If there is a problem, contact the help desk. 215.204.8000.

UNIX ACCOUNTS: <https://accounts.temple.edu>

COMPUTER CENTER INFO: <http://www.temple.edu/cs>

ACADEMIC CALENDAR: <http://www.temple.edu/registrar/documents/calendars/>

ACADEMIC RIGHTS & RESPONSIBILITIES: (Policy # 03.70.02) which can be accessed through the following link: http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm

PLAIGERIASM: http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm

CANCELLATION NUMBERS: http://policies.temple.edu/getdoc.asp?policy_no=04.31.12

TEMPLE HOME PAGE: <http://www.temple.edu/>

TEMPLE UNIVERSITY LIBRARIES: <http://www.library.temple.edu/>

2229 Assignments: **August 24- Oct. 20:** The Architecture of Computer Hardware and Systems Software, Englander. This syllabus schedule is subject to change depending on the class' progress

Week	Tuesday	Thursday	Lab
1: 8/25	Course Introduction Overview of Computer Systems Chapter 1: Computer and Systems	Overview of Computer and Systems Chapter 1 (continued)	Introduction to lab
2: 9/1	Overview of Computer and Systems Chapter 1 (continued) Chapter 2: An Introduction to Systems concepts and Systems Architecture Tech Bytes sign-ups	Data in the computer Number Systems Chapter 3 Number Systems (Sections 3.1-3.6) Tech Bytes	Lab 1 -Part I Astro Web Hosting
3: 9/8	Data in the Computer Number Systems Chapter 3 (continued) Chapter 4 Data Formats Tech Bytes	Data in the Computer Quiz 1 Data Formats-Chapter 4	Lab 1 Both sections due
5: 9/15	Computer Architecture and Hardware Operation Chapter 7: CPU and Memory (continued) Tech Bytes	Computer Architecture and Hardware Operation Chapter 7 CPU and Memory (continued): Tech Bytes	Lab 2 Hardware lab

Week	Tuesday	Thursday	LAB
6: 9/29	Computer Architecture and Hardware Operation Quiz 2 (Chapters 4, 6 and 7) Implementation Chapter. 8: CPU and Memory: Design, Enhancement and Implementation	Computer Architecture and Hardware Operation Chapter. 9 (I/O) Tech Bytes	Lab 3 Fedora 20 Installation
7: 10/6	Computer Architecture and Hardware Operation Tech Bytes Chapter. 9 I/O (continued) Chapter. 10 Computer Peripherals (assigned sections), Chapter 11: Modern Computer Systems:(Assigned Sections) Tech Bytes	The Software Component Chapter 15- OS: An Overview Chapter. 16(assigned sections) The User View of Operating Systems- Tech Bytes	Lab 3 Due Lab4 Apache Web Server
8: 10/13-	The Software Component-Englander Chapter 17 File Management (assigned sections) Chapter 18(assigned sections) The Internal OS Tech Bytes	The Software Component-Englander Quiz 3: Chapter 8,9, 10 Chapter 18(assigned sections) The Internal OS	Lab 4 Due Lab 5 Linux administration through web due end of lab
9: 10/ 20	The Software Component-Englander Chapter 18(assigned sections) The Internal OS (Review- Tech Bytes	Midterm:	Lab 6

Oct. 27 – Dec. 3- Book 2 Computer Networking, A Top-Down Approach, 6th Edition, Kurose and Ross

Week	Tuesday	Thursday	Lab
10: 10/27	Book 2: Overview Computer Networks and the Internet- Chapter 1 Computer Networks and the Internet- Tech Bytes	-Chapt.1 Computer Networks and Internet (continued) Tech Bytes	Lab 6 due Lab 7
11: 11/3	Chapter 2 pgs. 80-144: Application Layer Tech Bytes	Chapter 2 pgs. 80-144: Application Layer (continued) Tech Bytes	Lab 7 due Lab 8 Windows Server 2010 Part 1 and Part II
12: 11/10	Chapter 2 pgs. 80-144 Application Layer (continued) Tech Bytes	Chapt.4 pgs. 305-352 Network Layer- Quiz 4 (?)	Lab 8 part 1 and part 2 due Lab 9
13: 11/17	Chapt.4 pgs. 305-352 Network Layer (continued) Tech Bytes	Chapt.4 pgs. 305-352 Network Layer 2 (continued) Tech Bytes	Lab 9-due Lab 10
14: 11/24	Fall And Thanksgiving Break		
15: 12/1	Chapt.4 pgs. 305-352Network Layer- (continued) Tech Bytes	Chapt.4 pgs. 305-352Network Layer (continued)- Review	Lab 10 due
16. Final Exam Dec. 10	Thursday: 10:30-12:30 Room 403B		

Study Days 12/8 and 12 /9

Final Exam - Thursday Dec. 10, 10:30-12:30 Tuttleman 403B

Testing Dates:

Quiz 1: Thursday, September 10

Quiz 2: Tuesday, September 29

Quiz 3 : Thursday, October 15

Quiz 4: Thursday, November 12

Midterm: Thursday, Oct. 22

Final: Thursday, Dec 10, 10:30-12:30, Room 403B