Course Information and Policy

Zhi Wang
Florida State University
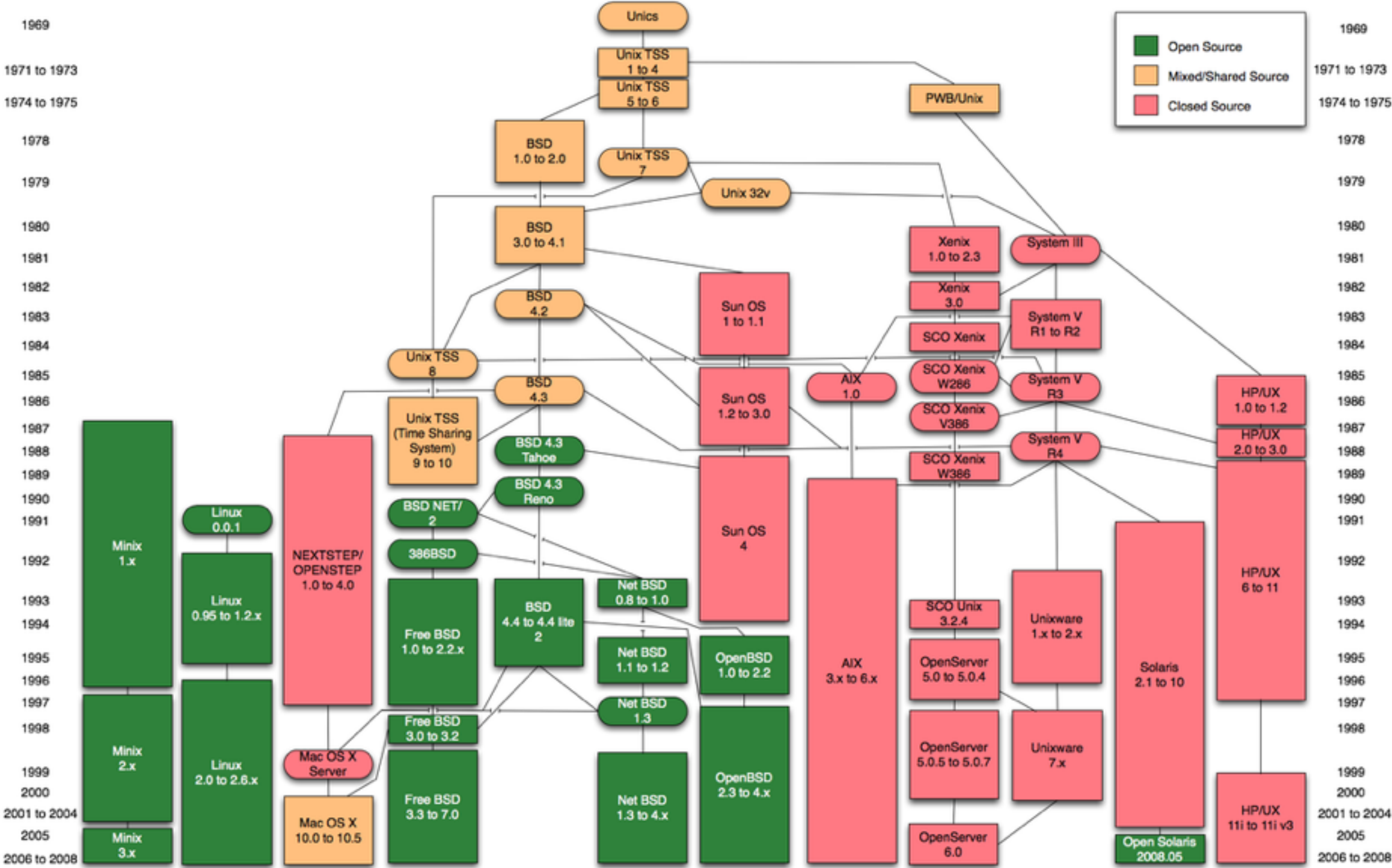
Popular Operating Systems
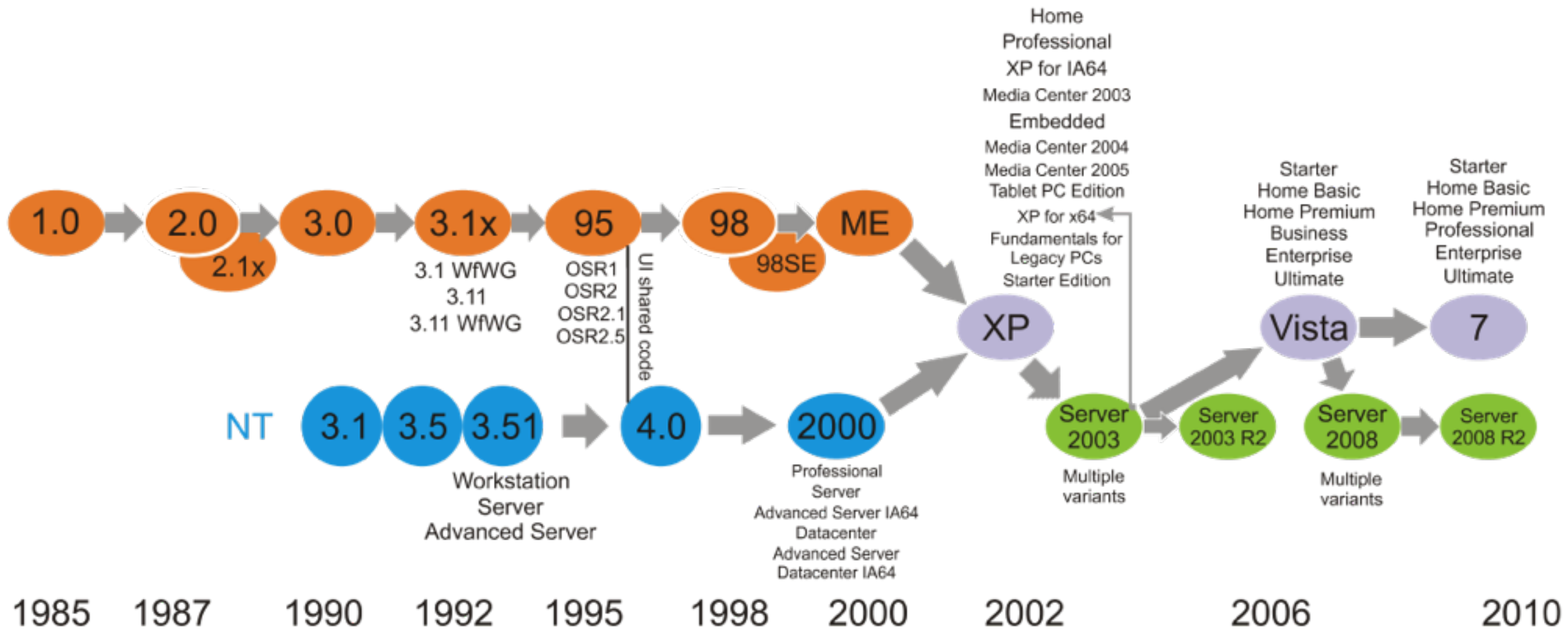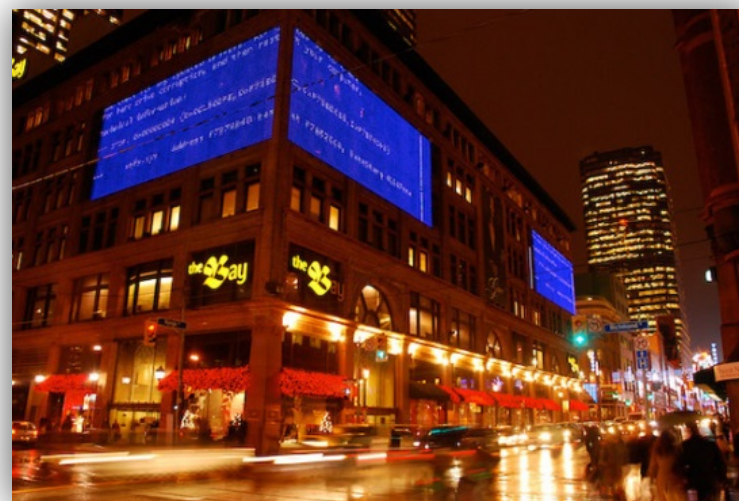
UNIX Family Tree

Windows Family Tree

Why Study Operating Systems

- OS is highly complicated software running on most machines

  - Windows: 50M lines of source code

  - Linux: 15M lines of source code

- It contains many important system concepts

  - complexity hiding, performance tuning, resource allocation…

- Studying OS internals makes you a more capable programmer

Learning Objectives

- Understand operating system concepts

  - process management, CPU scheduling, synchronization, file systems…

- Comprehend OS concepts through programming

  - multi-threading and synchronization, system call, kernel modules…

- Get an overall understanding of the real-world operating systems

Prerequisites

- COP 4530 Data Structures

- CDA 3101 Computer Organization

- Programming skills:

  - proficiency in UNIX(Linux) programming and debugging

  - proficiency in the C programming language
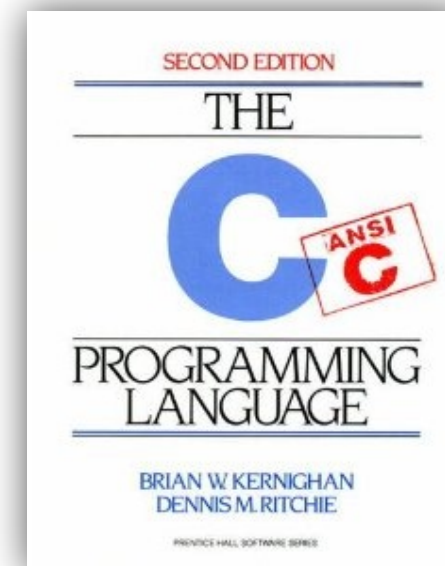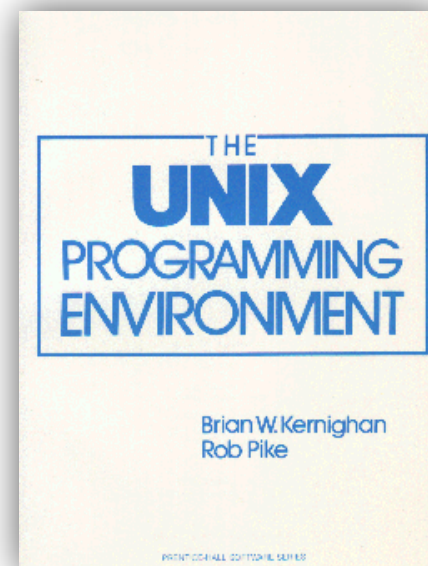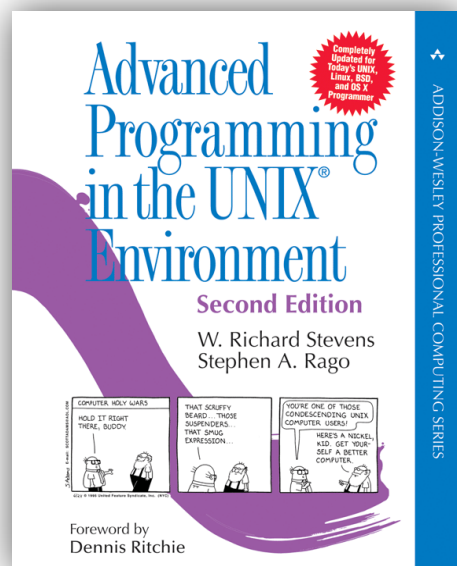
Instructor

- Zhi Wang (zwang@cs.fsu.edu)

- Office: 172 LOV

- Office hour: Monday 1:30-3:30PM or by appointments

- Class website: http://www.cs.fsu.edu/~zwang/

TA

- Brandon Stephens

  - 12:30PM-2:00PM, Tuesday and Thursday, LOV 105E

- Wenqi Wang

  - 1:30PM - 3:00 PM Wednesday, 9:30AM-11:00AM Friday, MCH102C
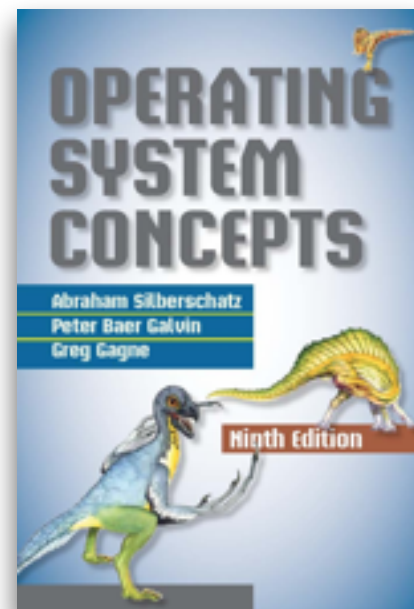
Course Material

- Lecture notes (posted at the class website)

- Textbook:

  - Operating System Concepts 9th Edition by Silberschatz, Galvin, Gagne

  - Xv6, a simple Unix-like teaching operating system

    - http://pdos.csail.mit.edu/6.828/2012/xv6.html

Class Grading

- Five components: homework, projects, quizzes, midterm, final

Projects	25%
Homework	20%
Midterm	25%
Final	25%
Quizzes	5%

- Letter grading:

	A: [100, 92]	A⁻: (92, 90]
B⁺: (90, 88]	B: (88, 82]	B⁻: (82, 80]
C⁺: (80, 78]	C: (78, 72]	C⁻: (72, 70]
D⁺: (70, 68]	D: (68, 62]	D⁻: (62, 60]
	F: (60, 0]	

- CGS5765 students must get a **B⁻** or better to receive a **S** in the final grade

Homework and Projects

- Project and homework assignments are **individual** efforts

- Submission **MUST** be typed, no hand-written submission

- Late submission will be accepted up to **three days after the deadline**

    - a **10%** penalty will be applied for **each day** of late submission

- Disputes of grade MUST be resolved within **two weeks** of receiving it

Exams

- One midterm exam and one final exam

  - both exams are close-booked

  - final exam is comprehensive/cumulative

- One cumulative make-up exam for missed exams after the final

Your Responsibilities

- Understand lecture & reading materials

- Attend office hours for extra help, if needed

  - if the class is too hard or you do not have necessary backgrounds

  - if the class can be improved in certain ways

- Uphold academic integrity

- Turn in your assignments on time

- Check class web page and your email regularly

Dos and Don'ts

- Do share debugging experiences, knowledge of tools

- Do acknowledge help from others

- Do acknowledge sources of information from books and web pages

- Don't cheat or help others cheat

- Don't copy code from others or off the web

- Don't paraphrase code from others

    - e.g., changing variable names or indentation

- Don't post code to the discussion board

Course Policies

- Attendance is mandatory

- Honor code: read your student handbook

- Students with disabilities

    - report to student disability resource center

    - bring me a letter within the first week of class