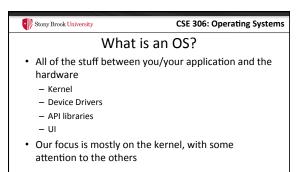
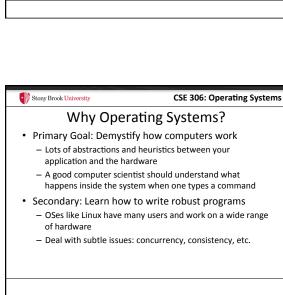
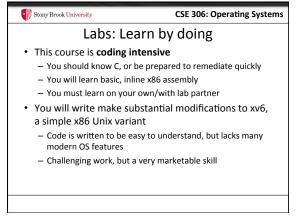
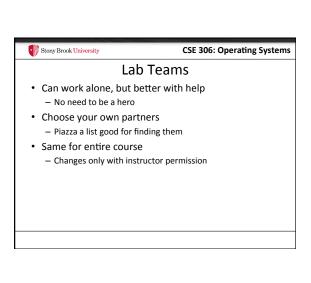


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## **Challenge Problems**

- Each lab may include challenge problems, which you may complete for bonus points (generally 5—10 points out of 100)
  - Unwise to turn in a lab late to do challenge problems
  - Can complete challenge problems at any point in the semester---even on old labs
- Indicate any challenge problems completed in challenge.txt file



**CSE 306: Operating Systems** 

### Administrative

- Syllabus, schedule, homework, etc. posted on course website
- www.cs.stonybrook.edu/~porter/courses/cse306/ s16



CSE 306: Operating Systems

## **Required Readings**

- · Primarily from the class textbook
- Should be completed before the lecture
- Required reading material may appear on the exams, even if not discussed in lecture
- · Several recommended (optional) texts will be posted
  - Several free on SBU safari online site
  - Papers you can print out or read electronically
  - Others on reserve at library



CSE 306: Operating Systems

### Lectures

- · Discuss and supplement reading material
- · An important chance to clarify issues
  - Questions are encouraged!
- I expect you to arrive prepared to answer and ask questions about the reading material
- Everything in lectures may appear on the exams, even if not in the book



CSE 306: Operating Systems

# Recordings

- I usually record lectures for students to review later
  - NB: This is pending help from the tech staff. This room is not equipped with SBcapture.
- Assuming this works out, recordings are best effort
  - Recordings may fail, or get deleted by accident
  - Or be discontinued if too many students stop attending
    - I need your facial expressions and questions to know if lectures make sense
- Do not use this as a substitute for class attendance

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**CSE 306: Operating Systems** 

# **Guest Lectures**

- Senior graduate students will give some lectures to gain teaching experience
  - Including today!
- Professor Porter will review and critique guest lectures (in person or recorded) with guests
- Please
  - $\boldsymbol{\mathsf{-}}$  Ask questions if something is unclear: in class or on piazza
  - Give Prof. Porter comments on guests (and his lectures)--positive and negative

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### **Prerequisites**

- CSE 219 (CS III) or CSE 260 (CS B, Honors)
- CSE 220 (Systems-level Programming) or ESE 380 (Embedded Microprocessor Design I)
- The background courses are necessary
  - I strongly encourage students to take (new) CSE 320 first
- In some cases, industry experience is ok
  - In-class quiz, due before you leave
    - If you can't answer 50% of these questions you are not prepared
- C programming
- · Basic Unix command-line proficiency



CSE 306: Operating Systems

## C Programming

- You should have learned C in the prerequisite courses
- If you have not and want to take the course, you should read "The C Programming Language" by Kernighan and Ritchie cover to cover this week
  - And complete all exercises in the book
- If you can do this, you will be prepared to complete this course on schedule



CSE 306: Operating Systems

### Course email list

- We will use Piazza this semester. Link on course website
- This is the primary announcement medium
- And for discussions about course work
  - Do not post code here or other solutions
  - Goal: Everyone can learn from general questions
- Material discussed on the mailing list can be an exam question

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### Other administrative notes

- · Read syllabus completely
- · Subscribe to the class piazza forum
- · 2 exams cover: lectures, labs, mailing list
- Every student will get a VM for lab work
  - You may use your own computer, staff can't support it
- All staff email goes to <a href="mailto:cse306ta@cs.stonybrook.edu">cse306ta@cs.stonybrook.edu</a>
- Except private issues for instructor only

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# Special Offer!

- · You can write your own exam questions
  - Send them to me in advance of the test, if I like them, I will use them
  - Do NOT share with anyone else

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# Academic Integrity

- I take cheating very seriously. It can end your career.
- In a gray area, it is your job to stay on right side of line
- Never show your code to anyone except your partner and course staff
- Never look at anyone else's code (incl. other universities)
- Do not discuss code; do not debug each other's code
- · Acknowledge students that give you good ideas



# Why do we care?

- · Analogy: This is the programming dojo
  - If you don't do your exercises, you will be unprepared for battle
  - You've wasted your money and both of our time
  - It brings dishonor on the dojo when you lose every battle
- Similarly, a lot of what I have to teach (and what will make you a valuable employee when you graduate) has no short cut
  - How do you learn to punch through a board?
  - You punch a board over and over until your fist goes through it



**CSE 306: Operating Systems** 

### **Productive Frustration**

- One of the "meta skills" that distinguishes an excellent programmer is the ability to get un-stuck
  - Fixing a "heisenbug" has this property
- How do you learn this skill?
  - Get stuck on a hard, but solvable problem
  - Learn which strategies will get you moving again
- If you take a quick cheat, you won't learn the skills to solve truly hard problems



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## **Integrity Homework**

- Exercises applying course policies and ethics to several situations
- Due in class 2/11

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### Lateness

- Each student gets 72 late hours
- List how many you use in slack.txt
  - Each day after these are gone costs a full letter grade on the assignment
- If you work in a team, each member loses 1 hour for each hour late
- It is your responsibility to use these to manage:
  - Holidays, weddings, research deadlines, conference travel, Buffy marathons, release of the next Zelda game, etc.
- 3 Exceptions: illness (need doctor's note), death in immediate family, accommodation for disability

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# Getting help

- TA's will keep office hours (TBD)
- · Instructor keeps office hours
  - Note that "by appointment" means more time available on demand.

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# Questions?

- Remember:
  - Hand-in survey
  - Do academic honesty homework
  - Lab 1 coming out soon
  - Reading assigned for Thursday