Operating Systems

- Course introduction

Teachers

Section	Instructor	Time	TA
1001	Dr. Xiao DONG (xiaodong@uic.edu.cn, T6-403-R2)	Thu 13:00-13:50 Fri 13:00-14:50	Mr. Zhongyi Yu (zhongyiyu@uic.edu.cn, T3-502-R26)
1002 & 1003	Dr. Sunny Seon Phil JEONG (spjeong@uic.edu.cn , T3-602-R6)	Mon 10:00-11:50 Thu 15:00-15:50	Ms. ZHOU Rubin (rubinzhou@uic.edu.cn, T3-502-R26) LYU Jingyi (jingyilyu@uic.edu.cn, T29-502)

Lectures + Tutorials

- Each week
  - 3 lecture hours + 1 tutorial
  - Attendance in both lecture class and tutorial class is COMPULSORY.
    - Some feedback: Tutorials are very helpful. TAs are good at guessing some exam questions.
  - Tutorial time will be decided soon

Course Policies

- Come to class on time
- Enter classroom quietly if you are late
- Do NOT speak to each other during lectures
- Raise your hand for questions
- It is your responsibility to get the course notes, handouts, and assignments from iSpace
- Students with excessive unexcused absences may be excluded from final examination

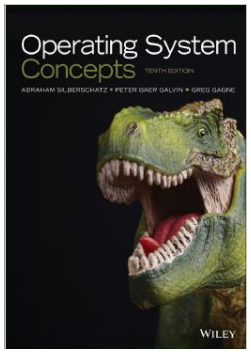
Course Policies

No Mobile Phone, Pad in the lecture time

Use computers or Laptops only when the teacher asks you to do

Textbooks and Recommended Websites

- Textbook
  - Abraham Silberschatz, Peter Baer Galvin, Greg Gagne, Operating System Concepts, John Wiley and Sons, 10th Ed., 2018.



- Website
  - https://www.os-book.com/OS10/index.html
  - https://www.geeksforgeeks.org/operating-systems/


Operating Systems

Last Updated : 28 Jun, 2021

Read Discuss(20+) Courses Practice Video

Recent Articles on Operating Systems

- Basics
- System Structure
- CPU Scheduling
- Process Synchronization
- Deadlock
- Processes & Threads
- Memory Management
- File and Disk Management
- Misc

Basics:

1. Introduction of Operating System
2. Types of Operating Systems
3. Functions of Operating System
4. Real time systems
5. Tasks in Real Time systems
6. Difference between multitasking, multithreading and multiprocessing
7. Types of computer memory (RAM and ROM)
8. Difference between 32-bit and 64-bit operating systems

Programming

- Only C programming language is used in this course for programming in assignments or exercises
  - printf / scanf, “if” tests, “for” loops, arrays, strings, functions, pointers, etc.
  - A tutorial (lab) on linked list using C programming language will be given.
- Linux (Ubuntu) is used.
- References:
  - “Advanced Linux Programming” by Mark Mitchell, Jeffrey Oldham, and Alex Samuel. Copyright © 2001
  - “The Linux Programming Interface” by Michael Kerrisk, Copyright © 2010

iSpace

- Website: ispace.uic.edu.cn
- iSpace is a course management system used in UIC, where you can find
  - course lecture slides
  - submission links for the assignment work
  - grades for assignment work and exams
  - rubrics and syllabus
  - important notices
- Course work evaluation criteria
  - Refer to CRA rubrics in iSpace

Course Evaluation

- Evaluation
  - Hand-on exercises: 10%
  - Programming assignments: 20%

    15% assignments + 5% weekly attendance
  - Midterm: 25% (covers chapters 1 – 5)
  - Project: 10%
  - Final exam: 35%
  - Midterm and final examinations receive a special concern.
  - If you get a high score from the continuous assessments and a low score in the midterm or final exam, you still have a chance to fail this course, even though your total score is not low.
- You must pass both continuous assessment and exams to pass this course

Make-up Exams

- There will be no makeup exams without a documented legitimate reason that is outside of your control
- A heavy workload or social conflict is NOT an acceptable excuse!

Late or Wrong Submission

- If homework is submitted after deadline
  - No marks are given
- No excuse is accepted for wrong submission
  - Be careful on the submission requirements from teachers
  - Double check the submission by downloading the submission and check.

How to Fail Quickly

DISHonesty = FAIL

- Time
- Money

- Copy of assignments and labs
- Plagiarism in quizzes and exams

Academic Integrity

- Academic dishonesty includes, but is not limited to,
  - submitting work that is not one's own,
  - cheating in quizzes, tests, or examinations
- Any student caught cheating during the exams will receive a failing grade for the course, and will be reported to the Student Disciplinary Committee
- Cheating in any course work will have the same penalty as above.
- What is considered cheating in an assignment or a lab exercise?
  - Any program which does not start from 1) an empty program, and 2) a program from the lecture notes and lab requirements

Academic Integrity

- If a student copies work from another student, BOTH are given 0, no matter whether the copied one knows or not.
- It is student's responsibility to prevent his work from being copied.

Study Tips

- Attend classes and listen to lecture carefully
- Review lecture slides and textbook
- Find solutions in geekforgeeks or CSDN or other websites.
- Do all the homework by yourself.

No Pain, No Gain!