
Course Information

Sarah Diesburg
Operating Systems
CS 3430

Instructor

- Sarah Diesburg (diesburg@cs.uni.edu)
- Office: 311 ITTC
- Office hours: MWF 10:00-10:50am, 1:00-1:50pm, and by appointments
- Class websites:
 - http://www.cs.uni.edu/~diesburg/courses/cs3430_sp14/index.htm
 - [UNI eLearning](#)

Class Schedule

- Lecture MWF 2:00-2:50pm in ITTC 328
 - **Mandatory:** Two general OS lectures, one recitation lecture per week (subject to change)
 - Attendance will be randomly taken and count towards 5% of your final grade

Why Study Operating Systems?

- The OS is the largest and the most complicated software running on most machines
- It contains many important system concepts
 - Design principles
 - Complexity hiding
 - Performance tuning
 - Resource coordination

Applicability of OS Skills

- Software engineering
- Database design and implementation
- Network design and implementation
- Distributed computing

Learning Objectives

- Operating system concepts
 - Process management, CPU scheduling, synchronization, caching, file systems, and so on
- Programming skills
 - User-level shell
 - Kernel module, system call, synchronization primitives, file system

Prerequisites

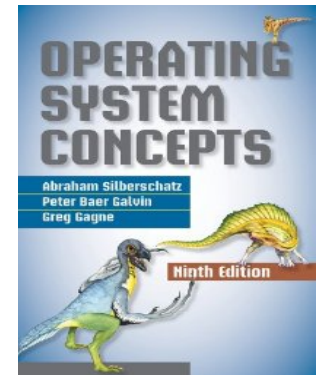
- CS 1410 Computer Organization
- CS 1520 Data Structures
- CS 1800 Discrete Structures

Required Skills

- Proficiency in UNIX programming and debugging environment
- Proficiency in C or other high-level programming language

Course Material

- Lecture notes (posted at the class website)
- Textbook:
 - Silberschatz, Galvin, Gagne,
Operating System Concepts,
9th Edition



Class Grading

- Two components
 - Exams (45%)
 - Homework assignments and projects (50%)
 - Attendance (5%)

Exams

- Exam 1 (10%)
- Exam 2 (10%)
- Comprehensive final exam (25%)

More on Exams

- 80% based on lectures, assignments, and projects
- 20% based on your ability to apply various principles learned in the class

Assignments and Projects

- Homework assignments (10%)
 - Paper submissions
- 3 – 4 projects 1 (10 - 15% each)

Passing the Course

- To receive $\geq C$ for course, you must get a passing grade on
 - The projects (overall average)
 - The final exam
- Not that passing the above does not automatically imply $\geq C$!

If you pass projects and final, your grade will be:

■ 100 – 92	A	■ 69.9 – 68	D+
■ 91.9 – 90	A-	■ 67.9 – 62	D
■ 89.9 – 88	B+	■ 61.9 – 60	D-
■ 87.9 – 82	B	■ 59.9 – 0	F
■ 81.9 – 80	B-		
■ 79.9 – 78	C+		
■ 77.9 – 72	C		
■ 71.9 – 70	C-		

Assignments

- Individual homework assignments
 - Testing your ability to apply knowledge from the lectures and readings
 - One bonus point for each homework assignment
 - Constructive comments on lectures and recitations
 - Or, a funny story of the week

Projects...

- Increasingly difficult
- In teams of two people
 - Team of 3 only in exceptional circumstances (email me)

Computer Accounts

- CatID credentials to access the eLearning website
- Make sure you are checking your UNI emails.
 - Important class announcements will be sent frequently from the eLearning interface to your UNI email account.
- You will also be receiving specialized login accounts to a class-specific programming server. More details to be announced in class.

Your Responsibilities

- Understand lecture and reading materials
- Attend office hours for extra help, as needed
- Uphold academic honesty
- Turn in your assignments on time
- Check class Web page and your garnet email account and regularly

Dos and Don'ts

- Do share debugging experiences
- Do share knowledge of tools
- Do acknowledge help from others
- Do acknowledge sources of information from books and web pages

Dos and Don'ts

- Don't cheat
- Don't copy code from others
- Don't *paraphrase* code from others either
 - E.g., changing variable names & indentations
- Don't post more than 1 line of code to the discussion board

Course Policies

- Attendance mandatory
- There are no make-up exams for missed exams...
- 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



To see or not to see me

- I am not psychic
- Please let us know if...
 - ❑ Class is too hard
 - ❑ You don't have the background
 - ❑ Class can be improved in certain ways
- When in doubt, email me...

Survival Tips

- Post messages and read the discussion board frequently
 - Sign up to receive emails
- Start on projects and assignments early!
- Web search engines are your good friends
- Start on projects and assignments early!