Course Information

Sarah Diesburg
Operating Systems
CS 3430
Instructor

- Sarah Diesburg (diesburg@cs.uni.edu)
- Office: 311 ITTC
- Office hours: MWF 1:00pm-3:00pm and by appointments
- Class websites:
  - [http://www.cs.uni.edu/~diesburg/courses/cs3430_sp18/index.htm](http://www.cs.uni.edu/~diesburg/courses/cs3430_sp18/index.htm)
  - [UNI eLearning](http://www.cs.uni.edu/~diesburg/courses/cs3430_sp18/index.htm)
Class Schedule

- Lecture MWF 11:00am-11:50am in ITTC 328
  - 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
  - Synchronization primitives (threads and mutexes)
  - File system
  - Drivers
Prerequisites

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

- Lecture notes (posted at the class website)
- Optional textbook:
  - Silberschatz, Galvin, Gagne, *Operating System Concepts Essentials*, 2\textsuperscript{nd} Edition
Class Grading

- Six components
  - Projects (4) 50%
  - Weekly Exercises 5%
  - Attendance 5%
  - Exam 1 10%
  - Exam 2 10%
  - Final Exam 20%
If you pass projects and final, your grade will be:

- 100 – 92   A
- 91.9 – 90   A-
- 89.9 – 88   B+
- 87.9 – 82   B
- 81.9 – 80   B-
- 79.9 – 78   C+
- 77.9 – 72   C
- 71.9 – 70   C-

- 69.9 – 68   D+
- 67.9 – 62   D
- 61.9 – 60   D-
- 59.9 – 0    F
Projects...

- Project 0 is a warmup
- Projects 1-3 can be done alone or in teams of 2 people
  - I encourage pair programming for people who might benefit from it
  - Challenging but can be done alone

Breakdown
- Halfway submission point (anti-procrastination)
  - Full submission
  - Quiz over understanding
Late Submission Policy

- Late project solutions will incur a 10-point deduction each day the project is late.
- Project solutions received after two days from the original due date will receive 0 points.
  - For example, a project solution submitted anytime on the Monday after the original due date of Friday will receive 0 points.
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.
Academic Honesty

- Discussing assignments is good, but copying code or answers is not.
- You are responsible for being familiar with UNI’s Academic Ethics Policies ([http://www.uni.edu/pres/policies/301.shtml](http://www.uni.edu/pres/policies/301.shtml))
- All cases found will result in a letter to the provost
Academic Honesty

- Any copied code from a current or previous class member may result in a zero grade for the assignment up to an F for the course

- **All code will be checked with a plagiarism checker against current and previous submissions**

- Both the supplier and the receiver of copied code will receive the same punishment
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 UNI email account and regularly
Course Policies

- 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…