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_sp15/index.htm
  - UNI eLearning
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, file system
Prerequisites

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

- Familiarity with Linux programming environment
- Proficiency in C or other high-level programming language
Course Material

- Lecture notes (posted at the class website)
- Textbook:
Class Grading

Six components

- Projects (4) 45%
- Weekly Exercises 0-5%
- Attendance 5%
- Exam 1 10%
- Exam 2 10%
- Final Exam 20-25%
Weekly Exercises

- Purpose is to prepare you for the exams
- Be prepared to discuss answers in class
- Will start out not turning them in for points
  - However, if enough people are not doing the exercises, I will start collecting them
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
- 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
- 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
  - Full submission
  - Quiz over understanding
- May have a halfway submission point (anti-procrastination)
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.
- You will also be receiving specialized login accounts to a class-specific programming server. More details to be announced in class.
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…
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!