University of Delaware

CISC 361-010 – Operating Systems

Spring 2013

- **Information**
  - Instructor: Greg Silber (silber@udel.edu)
  - Meeting Time and Place: MW 5-6:15PM Kirkbride 005
  - Contact Information
    - Office: 441 Smith Hall
    - Email: silber@udel.edu
    - Phone: 302-220-8473
  - Office Hours:
    - Wed. 3:45-4:45PM or by appointment
  - Teaching Assistant:
    - Name: Fan Yang
    - Email: yangfan@udel.edu
    - Office: 201 Smith Hall
    - Office Hours: TBD
  - Required Text: William Stallings, *Operating System: Internals and Design Principles*, 7th Edition, Pearson/Prentice Hall, 2012, ISBN-13 978-0-13-230998-1.
  - Recommended Texts
- **Course Description:**
  This course introduces students to the principles and design of operating systems. The lectures focus primarily on the principles of operating systems; course projects expose students to the design and implementation aspects of operating systems, and 'large' software systems in general. The main concepts taught in this class include processes, threads, mutual exclusion, synchronization, deadlocks, process and thread scheduling, memory management, virtual memory, file systems, and distributed systems in modern, multiuser, multitasking operating systems such as Unix.
- **Student Background**
  - The prerequisites for this course are:
    - CISC 220 – Data Structures
    - CISC 260 – Machine Organization and Assembly Language (or equivalent)
    - CISC 360 – Computer Architecture (recommended but not required)
- **Expectations**
  - It is expected that all students will attend all lectures for this class. Much information will be presented in class which will not be available through any other source.
  - It is expected that all students will have a copy of the textbook, will complete all assigned readings, and will generally use the textbook as a reference throughout the course.
  - It is expected that all students will complete all homework assignments in a timely fashion. Late homework assignments will not be accepted.

- It is expected that all students will complete all programming assignments for the course. All programming assignments must be completed in C (not c++). Late assignments will be penalized at 10%/day.

- **Exams:** There will be a midterm exam and a final exam for this course. All exams are open book/open note, but cell phones and computers are not permitted during exams.
  - Important information (about exams, assignments, projects, policies) may be communicated only in the lectures. Furthermore, the lectures may contain material not contained in the textbook, and the exams may test any material covered either in the lecture or in the textbook. If you do happen to miss lectures, you are responsible for finding out what materials were covered and if any announcements were made.
- **Grading:**
  - Final scores will be determined as follows:
    - Homework 5%
    - Programming projects: 40%
    - Midterm exam 25%
    - Final Exam 30%
- **Academic Honesty:**
  While it is encourages that students help each other to understand concepts, all work turned in on homework, programming projects, and exams MUST BE YOUR OWN. If any portion of work turned in for this course is found to be shared between two or more students, the entire assignment will be given a 0 and the students will be disciplined. Any violation of the University of Delaware policy of Academic Dishonesty will be dealt with harshly. It is important to do your own work.
- **Cell phones/texting/ and laptop computers are not permitted during class time.**