Course Info:

Instructor: Dr. Nihat Altiparmak  
Office: DC 209  
Phone: 502-852-7533  
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Office Hours: Tue & Thu 1:15 PM - 2:15 PM, or by appointment

TA: Luke Floden  
Office: DC 242  
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Office Hour: Tue & Thu 11:00 AM - Noon, or by appointment

Class Hours: Tue & Thu 2:30 PM - 3:45 PM  
Class Location: JS 203  
Class Webpage: http://cecs.louisville.edu/nihat/teaching/cecs420s20

Textbook:

Recommended OS Book:  

Recommended C Programming Books:  

Other Optional Supplementary Books:  
• Operating Systems: Three Easy Pieces by Remzi H. Arpaci-Dusseau and Andrea C. Arpaci-Dusseau.  
  (This is a very good OS Book free in PDF.)  

Prerequisites:

CECS 302 and CECS 130 are prerequisites. See the instructor immediately if you did not complete these courses. Taking CECS 412 before or together with this course is strongly recommended but not enforced.

Course Content:

This course is composed of the following components (see the class webpage for a detailed schedule):  
• Introduction: C & Linux Review, Introduction, OS Structures  
• Process Management: Processes, Threads, Process Synchronization, CPU Scheduling, Deadlocks  
• Memory Management: Main Memory, Virtual Memory  
• Storage Management: Mass Storage Structure, File System Interface, Internals & Implementation

Chapters [1-15] of the Recommended OS Book will be completed.

Grading:

• 50% Projects (first three projects are 10% each, last project is 20%)  
• 40% Tests (two tests with equal weight)  
• 10% Pop Quizzes (10+ quizzes with equal weight, lowest two quiz grades will be dropped)

The letter grade is calculated as follows:  
100 ≥ A+ ≥ 97 > A ≥ 94 > A- ≥ 90 > B+ ≥ 87 > B ≥ 84 >  
B- ≥ 80 > C+ ≥ 77 > C ≥ 74 > C- ≥ 70 > D+ ≥ 67 > D ≥ 64 > D- ≥ 60 > F ≥ 0.

Policies:

• Attendance is not graded but pop quizzes may be given at any time. No make-up is provided for missed quizzes; however, lowest two quiz grades will be dropped instead of a make-up. Exam and due dates will be scheduled in advance, and a grade of zero will be recorded for missed exams.
unless prior arrangements are made (only allowed in extraordinary circumstances with an official proof).

- All programming assignments will be done in Linux using C only (not C++/Java/Python). Students are strongly encouraged to collaborate in studying and to learn from each other; however, all submitted assignments should be done individually unless explicitly stated as a group assignment. **Except your group members, if any, you are not allowed to go over your friends’ code, and your friends cannot see your code.** You are only allowed to make high-level verbal discussions on the projects with other students.

- Posting assignments and/or solutions online is not permitted. You cannot publish your code partially (in forums or other sites for asking questions) or completely (in public source code repositories). **For instance, you cannot post your code on your public GitHub account unless you make it private! You are also not allowed to share your code with the future students of this class.** Not complying with these collaboration and code sharing rules will put you under the risk of plagiarism for this semester or the following semesters, including the cases where future students of this class copied your code from online resources (forums, GitHub, etc.).

- **We use advanced copy checkers;** cheating/copying of assignments (including Internet resources) will be reported and a grade of zero will be recorded.

- Students with special needs will be accommodated and all necessary arrangements will be made to facilitate learning the material, doing the assignments, and taking the tests.

- The instructor reserves the right to make changes in the syllabus when necessary.

**Title IX/Clery Act Notification:**

Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate University policies. Students experiencing such behavior may obtain confidential support from the PEACC Program (852-2663), Counseling Center (852-6585), and Campus Health Services (852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (852-5787) or University of Louisville Police (852-6111).

**Disclosure to University faculty or instructors** of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is **not confidential** under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University’s Title IX officer.

For more information, see [http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure](http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure).