**CISC361-010: Operating Systems**

**Syllabus**

Spring 2023, Time: TR 3:30 – 4:45PM (EST) [ISE205]

**Instructor:**  Dr. Matthew Louis Mauriello

Office: 408 Smith Hall

<https://www.cis.udel.edu/~mlm/>

Email: mlm@udel.edu (subject line should include “CISC361”)

Office Hours: M 1:30 – 3PM (EST), or by appointment

Office Hours Zoom (as necessary): <https://udel.zoom.us/j/97458790940>

**Teaching**

**Assistants:** Prerana Khatiwada

Office: 102A Smith Hall

Email: preranak@udel.edu (subject line should include “CISC361”)

Office hours: W 11AM – 12PM & R 5– 6 PM (EST), or by appointment

Zoom: <https://udel.zoom.us/j/7141464919>

**Description:**  Principles and techniques employed in the development of operating systems

and their control programs including management of memory, processors, I/O, etc.

**Prerequisites:** A minimum grade of C- in both CISC220 and CISC260. CPEG222 may be

substituted for CISC260. CISC360 is also recommended as a pre-requisite.

**Final Exam:** Friday, May 19th, 2023; ISE205, 3:30 PM – 5:30 PM

**Texts: Operating Systems Concepts, (10th Edition) Silbershatz, Galvin, & Gagne**

Modern Operating Systems, (4th Edition) Tanenbaum & Bos

**Grading:** Participation (in class activities/discussions/exercises): 5%

Homework assignments: 20%

Midterm exam: 25%

Final exam: 30%

Project: 20%

Overall: A(100-94), A-(93-90), B+(89-87), B(86-83) B-(82-80),

C+(79-77), C(76-73), C-(72-70),

D+(69-67), D(66-63), D-(62-60), F(<60).

**Tentative Timeline & Due Dates**

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| **Week** | **Material (Reading, 10th Ed.)** | **Assignments & Deadlines (Typically Fridays by 11:59 PM)** |
| 2/6 | Introduction (Chap 1 – 2) |  |
| 2/13 | Processes (Chap 3) | HW 1 Posted |
| 2/20 | Threads (Chap 4) | HW 1 Due, HW 2 Posted |
| 2/27 | Scheduling (Chap 5) | HW 2 Due |
| 3/6 | Scheduling (Chap 5) | HW 3 Posted |
| 3/13 | Synchronization (Chap 6 – 7) | HW3 Due, HW4 Posted |
| 3/20 | Deadlocks (Chap 8) | HW4 Due |
| *3/27* | *Spring Break (No Class)* |  |
| *4/3* | *Review for Midterm – In Class* | *Midterm (4/6) – In Class* |
| 4/10 | Memory (Chap 9) | HW 5 Posted, Project Posted |
| 4/17 | Virtual Memory (Chap 10) | HW5 Due, HW 6 Posted |
| 4/24 | Distributed File Systems (Chap 19) | HW 6 Due |
| 5/1 | Virtual Machines (Chap 18) |  |
| 5/8 | Flex (TBD) |  |
| 5/15 | Flex (TBD) | Project Due (5/16) |

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| **Late Policy:** | No late assignments will be accepted unless compelling reasons can be supplied and verified. Late assignments will receive no grade. |
| **Scholastic**  **Dishonesty:** | The University expects a student to maintain a high standard of individual honor in their scholastic work. Unless otherwise required, each student is expected to complete their assignments individually and independently. Although studying together is encouraged, the work handed in for grading by each student is expected to be their own. Any form of academic dishonesty will be strictly forbidden and will be punished to the maximum extent. |
| **Special**  **Accommodations:** | If you feel that you may need an accommodation based on the impact of  a disability, please contact me to discuss your specific needs. Additionally,  you will need to contact the Office of Disability Support Services (ODSS) for  coordination of your academic accommodations. The ODSS is located at 240 Academy Street, Alison Hall Suite 130, Phone: 302-831-4643. |