

CITY COLLEGE
The City University of New York
Grove School of Engineering
CSC 33200 – Section G - Operating Systems
Fall 2021

Instructor: Zaid Al-Mashhadani
Email: zalmashhadani@ccny.cuny.edu
Lecture: Monday and Wednesday at 5:00 – 6:15pm via Zoom
Lab Instructor: Sujoy Debnath
Meeting ID: 853 9844 1954
Office Hours: Monday from 12:00 – 1:00 pm. Appointments must be scheduled by email. Notifying a cancelled appointment will also be made by email.

Course Description and Goals:

Overview of computer organization. Interrupts. Operating systems objectives and functions. Hardware protection mechanisms, dual mode operation. System calls. The evolution of operating systems. Process representation and control. Uniprocessor scheduling. Process synchronization: critical section problem, synchronization mechanisms, algorithms, language constructs, classical synchronization problems: issues of safety, liveness, and fairness. Deadlocks. Memory management and virtual memory. File management. I/O management and disk scheduling.

Textbook:

Operating System Concepts, Author: Silberschatz, Abraham, Publisher: Wiley & Sons, Incorporated, Jo, Edition: 10, Year Published: 2012. You can find the book at CUNY Bookstore website at <https://ccny.textbookx.com>.

Grading:

The grade of this class breaking up into two parts; **80%** of the grades comes from the lectures, while the other **20%** comes from the lab.

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| Assignments | 20% |
| Midterm Exam | 20% |
| Final Exam | 20% (including extra credits – 5 activities) |
| Group project | 20% |
| Lab | 20% |

Homework Policy:

There will be 4 assignments throughout the entire semester. They will be posted on the blackboard. Solutions must be submitted uncompressed (i.e. do not zip the assignment files) on blackboard by the due date. Submitting a late assignment, compressed assignment, or an assignment that missing a file will result in a reduction by 10% to 20% of the assignment grade.

Attendance Policy:

Attendance will not be taken (except for the mandatory enrollment verification). However, students are fully responsible for anything covered during the lecture – including homework requirements, exam materials, due dates, et cetera.

Lectures are been conducted via Zoom Meeting. Students are required to keep their camera on during all sessions (including midterm and final exams).

Important Dates:

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| Wednesday | 08/25/2021 | first day of the class |
| Monday - Wednesday | 9/6/2021 – 9/8/2021 | No class |
| Wednesday | 9/15/2021 | No class |
| Wednesday | 10/07/2021 | Class Midterm |
| Monday | 10/11/2021 | No class |
| Wednesday | 11/24/2021 | Group Project Presentation |
| Monday | 12/13/2021 | Last day of class |
| Wednesday - Tuesday | 12/15/2021 – 12/21/2021 | Final Examinations |

Academic Integrity Policy:

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for implementing that policy can be found at this site: <http://www.ccny.cuny.edu/bc/policies>. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member **MUST** report the violation.

Behavior Policy:

Disruptive classroom behavior negatively affects the classroom environment as well as the educational experience for students enrolled in the course. Any serious or continued disruption of class will result in a report to the Office of Judicial Affairs. Public Safety will be summoned immediately if a serious disruption prevents the continued teaching of the class and you may be subject to disciplinary action. For disruptive behavior that does not prevent the continued teaching of the class, you will receive a warning after one such disruption. If the disruptive behavior is repeated in the same or subsequent classes, you may be asked to leave the classroom for the remainder of class and you may be subject to disciplinary action.

Accessibility / Disability Services Statement:

Please refer to the following policies: <https://www.ccny.cuny.edu/accessability>

Reference to the Student Bereavement Policy.

Please refer to the following link regarding bereavement:

<http://www.brooklyn.cuny.edu/web/about/initiatives/policies/bereavement.php>

State law regarding non-attendance because of religious beliefs.

Please refer to the Undergraduate Bulletin or Graduate Bulletin.