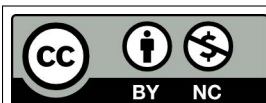


Abridged Syllabus: Workstation Programming

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1 Details

Course & Section:	<i>Workstation Programming</i> , CISC 3350, MW2
Days & Time:	Mondays, Wednesdays (MoWe), 02:15 PM – 03:30 PM
Location:	Old Ingersoll Hall, Room 3127 (IH-3127 in short)
Instructor:	Miriam Briskman
E-mail:	briskman@sci.brooklyn.cuny.edu
Response Time:	Within 25 hours on weekdays and 29 hours on weekends
Office Hours:	Mondays, 07:00 PM – 09:00 PM, online through Blackboard. Alternatively, please email me to schedule an appointment.
Course Materials:	[Required] <i>Linux System Programming: Talking Directly to the Kernel and C Library</i>, 2nd Edition, by Love., ISBN: 978-1-449-33953-1. Bookstore Link: https://brooklyn.textbookx.com/institutional/index.php?action=browse#books/3514680/. [Optional] <i>C Programming Absolute Beginner's Guide</i>, 3rd Edition, by Perry and Gregg., ISBN: 978-0-789-75198-0. Bookstore Link: https://brooklyn.textbookx.com/institutional/index.php?action=browse#books/3514680/.
Prerequisites:	CISC 3130 (Data Structures)
Tools/Resources:	Blackboard; VirtualBox, VMware Workstation, or a Linux computer; Adobe Reader DC

1.1 Course Description

(3 hours; 3 credits) Programming techniques for development of applications on networks of workstations. Process environments, file system issues. Concurrent programming, inter-process communication. Graphical user interfaces, event-driven programming. Distributed programming; remote process creation, the client-server model, message passing.

(Taken from CUNYFirst.)

1.2 Course Objectives

By the end of this course, you will master the following skills:

- Recognition of vital features of the Linux/UNIX operating system.
- Understanding of how Linux/UNIX commands are constructed and how to reproduce similar commands on your own.
- Provision of practice and examples that complement [CISC 3320](#) (Operating Systems).
- Understanding and writing C programs using Linux/UNIX text editors.

- Independent searching and verbal expression of answers based on given sources or your opinion.

Please refer to the Required Electronic Tools and Resources section at the end of the full version of the syllabus for information about how to obtain the software required for this course (for free, of course.)

2 Grading Components

The course's grade is influenced by the following components:

Attendance	10%
Participation	15%
Homework	20%
Midterm	25%
Final	30%
Extra Credit	5%

3 Grades

Students will receive a letter grade for the course according to the following score distribution established by CUNY:

<60	60-62	63-66	67-69	70-72	73-76	77-79	80-82	83-86	87-89	90-92	93+
F	D-	D	D+	C-	C	C+	B-	B	B+	A-	A

A grade of A+ will be granted for numerical grades of 97 or higher after all extra credit points you received are applied to the grade.

4 Important Brooklyn College Policies

4.1 Keeping Our Community Safe

Below (Figure 4.1) is a brochure summarizing Brooklyn College's guidelines regarding Covid-19 and feeling sick. Remember you'll either get full credit for missed assignments or a sufficient extension to submit missing work if you notify me about the situation via email, so don't hesitate to act to keep our community safe!

The link to the **COVID-19 Case Collection Form** is <https://www.brooklyn.cuny.edu/web/about/initiatives/initiatives/return/resources/case-collection-form.php>.

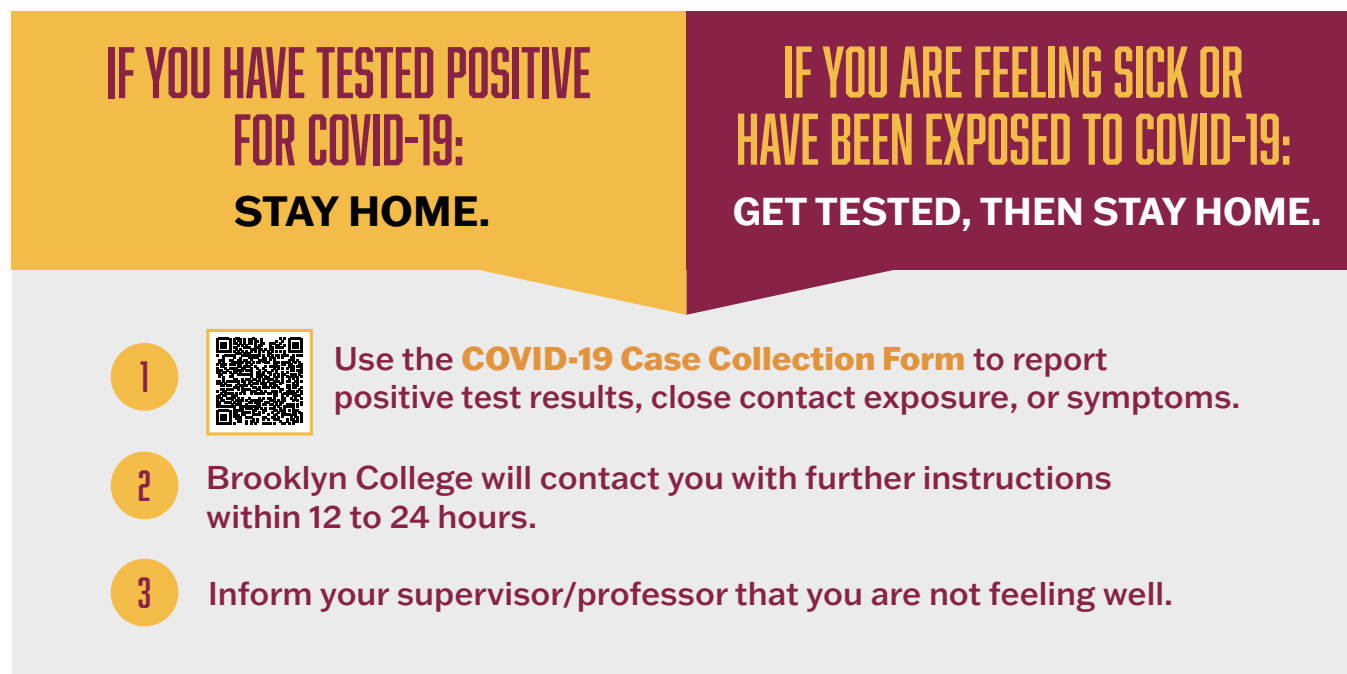


Figure 1: Covid-19 Infographic: What to do if you got Covid or feel sick. (Credit: Brooklyn College)

4.2 Center for Student Disability Services

The Center for Student Disability Services (CSDS) is committed to ensuring students with disabilities enjoy an equal opportunity to participate at Brooklyn College. In order to receive disability-related academic accommodations students must first be registered with CSDS. Students who have a documented disability or suspect they may have a disability are invited to schedule an interview by calling (718) – 951 – 5538 or emailing Josephine.Patterson@brooklyn.cuny.edu. If you have already registered with CSDS, email Josephine.Patterson@brooklyn.cuny.edu or testingcsds@brooklyn.cuny.edu to ensure the accommodation email is sent to your professor.

4.3 Nonattendance Because of Religious Beliefs

The Brooklyn College undergraduate Bulletin for the years 2022 – 2023 states:

The New York State Education Law provides that no student shall be expelled or refused admission to an institution of higher education because he or she is unable to attend classes or participate in examinations or study or work requirements on any particular day or days because of religious beliefs. Students who are unable to attend classes on a particular day or days because of religious beliefs will be excused from any examination or study or work requirements. Faculty must make good-faith efforts to provide students absent from class because of religious beliefs equivalent opportunities to make up the work missed; no additional fees may be charged for this consideration.

Based on the description above, if you are incapable of attending a class because of religious observance, you should e-mail me at least 48 hours before that class so that proper accommodations could be made. If this is an exam day, we will schedule a make-up exam when it is convenient to you, and if an assignment is due, the due date will be extended, and I will tell you when the new due date is.

4.4 Brooklyn College Policy on Academic Integrity

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: <https://www.brooklyn.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. Students should be aware that faculty may use plagiarism detection software.

This means that if you cheat on a test or assignment, I MUST file a report which will initiate academic penalties. Additionally, the assignment in which you cheat will get an unfortunate score of 0.

4.5 Brooklyn College Bereavement Policy

Students who experience the death of a loved one should refer to:

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

4.6 Brooklyn College Library

New student? Returning to campus? Looking for materials for your class or research? Check out the plethora of resources that the Brooklyn College Library is providing to you:

<https://library.brooklyn.cuny.edu/resources/>

You will certainly find something useful there!

4.7 More Information: Bulletin

For more information about the policies of Brooklyn College and other essential information, please refer to the Bulletin, which you can find on the following web-page:

<https://www.brooklyn.cuny.edu/web/about/administration/enrollment/registrar/bulletins.php>

5 Important Dates

January 25 (We): Start of Spring 2023 Term

January 25 (We): First lecture of CISC 3350, section MW2

January 31 (Tu): Last day to add a course

February 12 – 13 (Su – Mo): No classes scheduled

February 15 (We): Grade of W is assigned for officially withdrawing from a course

February 20 (Mo): No classes scheduled

February 21 (Tu): Conversion Day: Classes follow Monday schedule

April 05 – 13 (We – Th): Spring Recess

May 12 (Fr): Reading Day

May 16 (Tu): Last day to withdraw from a course with a grade of W

May 17 – 23 (We – Tu): Week of Final Examinations for the Spring 2023 Term

Please refer to the Brooklyn College Academic Calendar for the Spring 2023 semester to view other important dates not mentioned above:

<https://www.brooklyn.cuny.edu/web/about/administration/enrollment/registrar/bulletins/Spring23/calendar.php>

6 Schedule

Note that the schedule below is tentative; if changes are made, I will notify you and will post the updated syllabus/schedule on Blackboard.

All assignments, excluding the exams, are due at 11:59 PM EST, on Blackboard.

Week	Date	Topics, Exams, and Assignment Deadlines
1	01/25 (We)	Welcome! Syllabus Review
2	01/30 (Mo)	Chapter 1: Intro to Linux/UNIX OS and C programming
	02/01 (We)	Chapter 1: Intro to Linux/UNIX OS and C programming – Cont'
3	02/06 (Mo)	Special Topics: Useful Linux commands and command-line text editors
	02/08 (We)	Special Topic: Review of the C language
4	02/13 (Mo)	Lincoln's Birthday: No CISC 3350, MW2 lecture!
	02/15 (We)	Special Topic: Review of the C language – Cont'
5	02/20 (Mo)	Presidents' Day: No CISC 3350, MW2 lecture!
	02/21 (Tu)	Conversion Day: We have a lecture today! Chapter 2: File I/O • Homework 1 on Using Linux due
6	02/22 (We)	Chapter 2: File I/O – Cont'
7	02/27 (Mo)	Chapter 3: Buffered I/O
	03/01 (We)	Chapter 3: Buffered I/O – Cont'

Week	Date	Topics, Exams, and Assignment Deadlines
8	03/06 (Mo)	Chapter 4: Advanced File I/O & Memory-mapping • Homework 2 on Basic C Programming due
	03/08 (We)	Chapter 5: Process Management
9	03/13 (Mo)	Chapter 5: Process Management – Cont’
	03/15 (We)	Chapter 6: Advanced Process Management: Scheduling
10	03/20 (Mo)	Chapter 6: Advanced Process Management: Scheduling – Cont’
	03/22 (We)	Special Topic: Inter-Process Communication (IPC)
11	03/27 (Mo)	Chapter 6: Advanced Process Management: Scheduling – Cont’ • Homework 3 on Chapter 2 due
	03/29 (We)	Chapter 6: Advanced Process Management: Scheduling – Cont’
12	04/03 (Mo)	Midterm Exam: 02:15 PM – 03:30 PM, at WEB 1st Floor
	04/05 (We)	Spring Recess: No CISC 3350, MW2 lecture!
13	04/10 (Mo)	Spring Recess: No CISC 3350, MW2 lecture!
	04/12 (We)	Spring Recess: No CISC 3350, MW2 lecture!
14	04/17 (Mo)	Chapter 7: Threading • Homework 4 on Chapter 5 due
	04/19 (We)	Chapter 7: Threading – Cont’
15	04/24 (Mo)	Chapter 7: Threading – Cont’
	04/26 (We)	Chapter 10: Signals
16	05/01 (Mo)	Chapter 10: Signals – Cont’ • Homework 5 on Chapter 7 due
	05/03 (We)	Chapter 8: File and Directory Management
17	05/08 (Mo)	Chapter 8: File and Directory Management – Cont’
	05/10 (We)	Chapter 8: File and Directory Management – Cont’
18	05/15 (Mo)	Chapter 9: Memory Management • Homework 6 on Chapter 10 due • Final Exam Preparation/Review
Finals	05/22 (Mo)	Final Exam: 01:00 PM – 03:00 PM, at Ingersoll Addition 214

– End of CISC 3350 Abridged Syllabus –