Abridged Syllabus: Workstation Programming

Contents

1   Details

Course & Section:	*Workstation Programming,* CISC 3350, MW2
Days & Time:	Mondays, Wednesdays (MoWe), 02:15 PM – 03:30 PM
Location:	Ingersoll Hall, Room 3413 (IH-3413 in short)
Instructor:	Miriam Briskman
E-mail:	briskman@sci.brooklyn.cuny.edu
Response Time:	Within 24 – 48 hours, between 12 PM to 9:30 PM
Office Hours:	Wednesdays, 07:30 PM – 09:30 PM, online through Blackboard. Alternatively, please email me to schedule an appointment.
Course Materials:	[Free] *CISC 3350 OER Course Packet*, complied by Miriam Briskman. Link: `https://www.sci.brooklyn.cuny.edu/~briskman/cisc/3350/CISC_3350_OER_Course_Packet.pdf`. **Note**: This course uses only free, open-source materials.
Prerequisites:	CISC 3130 (Data Structures)
Tools/Resources:	Blackboard; Access to a computer (OS doesn't matter); Adobe Acrobat Reader DC

1.1   Course Description

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(3 credits) Programming techniques for development of applications on networks
of workstations.  Process environments, file system issues.  Concurrent programming,
interprocess 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   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.

4.2   Nonattendance Because of Religious Beliefs

The Brooklyn College undergraduate Bulletin for the years $2023 - 2024$ states:

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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.

4.3   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 can be found at this site:

https://www.cuny.edu/about/administration/offices/legal-affairs/policies-resources/academic-integrity-policy/

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.**

4.4   Brooklyn College Bereavement Policy

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

https://www.brooklyn.edu/policies/bereavement/

4.5   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!

4.6   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.edu/registrar/bulletins/

5   Important Dates

January 25 (Th): Start of Spring 2024 Term
January 29 (Mo): First lecture of CISC 3350, section MW2
January 31 (We): Last day to add a course
February 12 (Mo): Lincoln's Birthday: College Closed
February 15 (Th): Grade of W is assigned for officially withdrawing from a course
February 19 (Mo): Presidents' Day: College Closed
February 22 (Th): Conversion Day: Classes follow Monday schedule
February 28 (We): Conversion Day: Classes follow Monday schedule
March 29 – 31 (Fr – Su): No classes scheduled
April 22 – 30 (Mo – Tu): Spring Recess: No classes scheduled
May 15 (We): Last day to withdraw from a course with a grade of W
May 15 (We): Last day of classes!
May 16 – 22 (Th – We): Week of Final Examinations for the Spring 2024 Term

Please refer to the Brooklyn College Academic Calendar for the Spring 2024 semester to view other important dates not mentioned above:

https://www.brooklyn.edu/events/tag/Spring-2024-academic-calendar/list/?tribe_organizers%5B0%5D=8878

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	01/29 (Mo)	**Welcome!** Syllabus Review
	01/31 (We)	Topic 1: Intro to the Linux/UNIX OS Programming
2	02/05 (Mo)	Topic 1: Intro to the Linux/UNIX OS Programming – Cont'
	02/07 (We)	Topic 2: Useful Linux Commands and Text Editors
3	02/12 (Mo)	College Closed: **No CISC 3350, MW2 lecture!**
	02/14 (We)	Topic 2: Useful Linux Commands and Text Editors – Cont'

Week	Date	Topics, Exams, and Assignment Deadlines
4	02/19 (Mo)	College Closed: **No CISC 3350, MW2 lecture!**
	02/21 (We)	Topic 3: Review of the C Language
		• Homework 1 on Topics 1 & 2: Using Linux due
	02/22 (Th)	Conversion Day: **We have a lecture today!**
		Topic 3: Review of the C Language – Cont'
5	02/26 (Mo)	Topic 4: File I/O
	02/28 (We)	Topic 4: File I/O – Cont'
6	03/04 (Mo)	Topic 5: Buffered File I/O
	03/06 (We)	Topic 5: Buffered File I/O – Cont'
		• Homework 2 on Topic 3: Basic C Programming due
7	03/11 (Mo)	Topic 6: Vectored I/O & Memory-Mapping
	03/13 (We)	Topic 7: Processes
8	03/18 (Mo)	Topic 7: Processes – Cont'
	03/20 (We)	Topic 7: Processes – Cont'
9	03/25 (Mo)	Topic 8: Threads
	03/27 (We)	Topic 8: Threads – Cont'
		• Homework 3 on Topic 4: File I/O due
10	04/01 (Mo)	**Midterm Exam: 02:15 PM – 03:30 PM, at the West End Building (WEB), 1st floor, computers M126 – M165**
	04/03 (We)	Topic 8: Threads – Cont'
11	04/08 (Mo)	Topic 9: CPU Scheduling
	04/10 (We)	Topic 9: CPU Scheduling – Cont'
12	04/15 (Mo)	Topic 9: CPU Scheduling – Cont'
	04/17 (We)	Topic 10: Signals
		• Homework 4 on Topic 7: Processes due
13	04/22 (Mo)	No classes scheduled: **No CISC 3350, MW2 lecture!**
	04/24 (We)	No classes scheduled: **No CISC 3350, MW2 lecture!**
14	04/29 (Mo)	No classes scheduled: **No CISC 3350, MW2 lecture!**
	05/01 (We)	Topic 10: Signals – Cont'
		• Homework 5 on Topic 8: Threads due
15	05/06 (Mo)	Topic 11: Memory Management
	05/08 (We)	Topic 12: File and Directory Management

Week	Date	Topics, Exams, and Assignment Deadlines
16	05/13 (Mo)	Topic 12: File and Directory Management – Cont'
	05/15 (We)	Topic 12: File and Directory Management – Cont'
		• Homework 6 on Topic 10: Signals due
		• Final Exam Preparation/Review
Finals	05/20 (Mo)	**Final Exam: 01:00 PM – 03:00 PM, at the West End Building (WEB), 1st floor, computers M126 – M165**

– End of CISC 3350 Abridged Syllabus –