CISC 3140: Design and Implementation of Large-Scale Web Applications [Syllabus]

Instructor: Vivek Sharma
Class timing: MTuWTh 6:10PM - 7:55PM
Room Number: IA 238
Office Hours: Mon 5:00PM - 6:00PM or email to schedule Zoom session
Email: vsharma@gradcenter.cuny.edu

Textbook

This course follows an Open Education Resource structure. You don't need a textbook for this course. The open-source materials will be shared on course link https://bit.ly/cisc3140

There are tons of resources on the Internet too which will be shared in class.

Course Goals

At the end of the semester students will be proficient in:

• Overview of full-stack implementation of large-scale web applications.

• Team-based software development methodologies, tools, and practice.

• Introduction to modern HTML, CSS.

• Separation of structure, style, and behavior.

• JavaScript, dynamic types, functional programming, prototypal classes, and closures. • HTTP client-server communication, synchronous and asynchronous communication.

 • Java server pages, simple database creation, programmatic queries, and updates.

Course Structure

- This class requires a lot of hands-on experience. You will have 1 class time for the lecture and 1 class time for the lab that will be related to lecture.
- Attendance in class is required.
- Students are expected to finish their labs on the scheduled date.
- No late assignments will be accepted unless there is a documented medical emergency.
- If you cannot meet the deadlines, please drop the class.
- There will be short quizzes after some lectures, there will be no midterm or final exam, but a term-project.

- Term projects are individual.
- Final project will be presented by students in class.
- Your grade will depend on your lab assignments, quizzes, and your project.
- This class does not require any prior knowledge of a specific hardware/software.
- You need a working internet connection, a text editor of your choice (will be discussed in the class), and a web browser such as Google Chrome, Mozilla Fireworks, Microsoft Internet Explorer, etc.
- You can find the tentative schedule towards the end of this document but **remember this is subject to change.**

Grading

• 10% Attendance
• 20% Quizzes
• 30% In-Class Lab Assignments
• 40% Final Project (Details of the project will be shared separately)

Email your instructor if you have any questions. The email format for a student named Jane Doe regarding quiz 3 must have the subject **CISC3140 jane doe quiz3**. I usually reply within a day, so if you didn't receive a reply (probably it went to spam), reach me in class.

No late assignment will be accepted. If you cannot meet the deadlines, please drop the course immediately

Tentative Schedule

Date	Topic
7/14/22	Introduction
7/18/22	HTML - 1
7/19/22	HTML - 2 and Quiz 1
7/20/22	Lab 1 (HTML)
7/21/22	Introduction to CSS - 1
7/25/22	CSS - 2 and Quiz 2
7/26/22	Lab 2 (HTML)
7/27/22	CSS page layout and Quiz 3
7/28/22	Lab 3
8/1/22	Working with Tables and Columns
8/2/22	Lab 4

8/3/22	Design a web form and Quiz 4
8/4/22	Lab 5
8/8/22	Getting started with JavaScript
8/9/22	Lab 6
8/10/22	Array, Loops, Condition
8/11/22	Lab 7
8/15/22	Programming for webforms and Quiz 5
8/16/22	Lab 8
8/17/22	Events and styles - Quiz 6
8/18/22	Project Submission

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 policy implementation can be found at http://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.

Student Disability Services

To receive disability-related academic accommodations students must first be registered with the Center for Student Disability Services. Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell at (718) 951-5538. If you have already registered with the Center for Student Disability Services, please provide your professor with the course accommodation form, and discuss your specific accommodation with him/her.

Non-attendance because of religious beliefs

Reference to the state law regarding non-attendance because of religious beliefs (p.72 in the Undergraduate Bulletin or p. 46 of the Graduate Bulletin).

Syllabus is subject to change by the instructor during the semester.