BOROUGH OF MANHATTAN COMMUNITY COLLEGE
City University of New York

Department of Computer Information Systems
Office F930/Phone: 212-220-1476

Web Programming **Class hours: 2**
CIS 385 **Lab hours: 2**
Fall 2025

Credits: 3

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Course Description:

This course will introduce students to client side web programming. Emphasis is placed on HTMUXHTML, JavaScript, Java Applets and CSS in order to solve elementary level application problems. Students will be tasked with web projects that facilitate understanding of design and programming concepts. The overall goal is to create a shopping cart application with form validation, cookies and Applets.

Prerequisites: Basic Skills- ENG 095, ESL 095, ACR095, MAT012/051;
CSC 110 (Computer Programming I) or Departmental approval

Learning Outcomes and Assessment

- Outcome: Utilize HTMUXHTML with Cascading Style Sheets(CSS)
  Assessment: Lab exercises and exam questions
- Outcome: Design and develop web applications utilizing JavaScript and Applets
  Assessment: Lab exercises and exam questions
- Outcome: Implement a Graphical User Interface (GUI) Applet Application
  Assessment: Lab exercises
- Outcome: Demonstrate the use of cookies
  Assessment: Lab exercises, exam questions and Project
- Outcome: Design and develop a cookie-based shopping cart application
  Assessment: Project

General Education Outcomes and Assessment

- Quantitative Skills- Students will use quantitative skills; concepts and methods of mathematics to solve problems
  Assessment: Use formulas and concepts of mathematics to solve problems in programming assignments
- Information and Technology Literacy – Students will use information technologies effectively to collect, evaluate and interpret information
  Assessment: Use of client-side programming languages to create application software

Required Text & Readings:

Textbook: Web Programming, 8th Edition
Author: Robert Sebesta
Publisher: Pearson Publication
ISBNl0/13: 0-13-377598-4/978-0-13-377598-3

Other Resources/Technology: Flash/USE drive is recommended

Evaluation & Requirements of Students:

Exams:	60%
Project:	30%
Homework:	05%
Attendance:	05%
	100%

LIST OF COURSE TOPICS AND EXAMS

WEEK	TOPICS	READING
1	Fundamentals	Chapter 01
2 &3	Introduction to HTML and XHTML	Chapter 02
4&5	Cascading Style Sheets	Chapter 03
6	HTML & CSS Review/Exam	EXAM REVIEW/EXAMO1
7	Building a Static Web Site Description and Guidelines Assignment Project Part I	
8	The Basics of JavaScript	Chapter04
9	JavaScript and HTML Documents	Chapter05
10	Dynamic Documents with JavaScript	Chapter06
11	Final Project Description & Guidelines Assignment Project Part2	
12	JavaScript/DHTML(with Standard Event Listeners) Review/Exam	EXAM REVIEW/EXAM02
13	Introduction to XML	Chapter07
14	Introduction to XSL	Chapter 07
15	Final Exam Review	EXAM REVIEW/EXAM AND PROJECT

ASSESSMENT CRITERIA

For the successful completion of this course a student should be able to:	EVALUATION METHODS AND CRITERIA
!.Utilize HTMLIXHTML with Cascading Style Sheets(CSS)	Students will be encouraged to use standard text editors such as Notepad or Notepad++ to create basic web pages having HTML and CSS. Exams and lab exercises will be used as assessment tools to evaluate students understanding of HTML and CSS.
2. Design and develop web applications utilizing JavaScript and Applets.	Students will be encouraged to start using HTML IDEs such as Aptana/Sublime Text!NetBeans/Eclipse for their web application development. Exams and lab exercises will be used as assessment tools to evaluate the student's ability of writing web applications with and without 3rd party tools.
3. Implement a Graphical User Interface (GUI) Applet Application	Lab Exercises
4. Demonstrate the use of cookies and localStorage	Students will develop cookie/localStorage-based applications. Lab exercises, exam questions and the project will be used to assess the understanding of students on these topics.
5. Design and develop a cookie-based shopping cart web application	In the project, the E-Commerce website is to use a cookie and localStorage for the creation of a fully functional

	dynamic shopping cart application with checkout functionality. The site may optionally have a login/ registration component. The website's home page must also

Class Participation
Participation in the academic activity of each course is a significant component of the learning process and plays a major role in determining overall student academic achievement. Academic activities may include, but are not limited to, attending class, submitting assignments, engaging in in-class or online activities, taking exams, and/or participating in group work. Each instructor has the right to establish their own class participation policy, and it is each student's responsibility to be familiar with and follow the participation policies for each course.

BMCC is committed to the health and well-being of all students. It is common for everyone to seek assistance at some point in their life, and there are free and confidential services on campus that can help.

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Counseling Center www.bmcc.cuny.edu/counseling, room S343, 212-220-8140. Counselors assist students in addressing psychological and adjustment issues (i.e., depression, anxiety, and relationships) and can help with stress, time management and more. Counselors are available for walk-in visits.

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