Boston University
Metropolitan College

MET CS601: Web Application Development

Overview

This course teaches students modern web development using the latest standards; such as Babel, ES5/ES6, Modules and Promises. Students will have in-class laboratories that augment their readings and homework.

Instructor, Contact Email and Office Hours:

Instructor
Andrew Sheehan
E-mail
asheehan@bu.edu
Office hours
By appointment
Official BU Calendar
http://www.bu.edu/reg/calendars/

BU Blackboard: MET CS601 relies on the BU LMS system, learn.bu.edu. You need to have an account to have access to our course with all its material. Please attempt to login as soon as you can and verify that your account works.

Topic Coverage

1. *HTML and CSS*
2. *Objects and Literals*
3. *Promises*
4. *Modules*
5. *jQuery Core and UI*
6. *Ajax*
7. *Babel*

Course Objectives

- To build a complete website using HTML5, CSS and JavaScript.
- Gain an understanding the power of CSS.
- To use Ajax with jQuery.

Course Books

- **REQUIRED** HTML and CSS: Design and Build Websites, 1st Edition, by Jon Duckett **ISBN-13:** 860-1200464207
- **REQUIRED** Eloquent JavaScript: A Modern Introduction to Programming, 2nd Edition, by Haverbeke **ISBN-13:** 978-1593275846 (This book is free/online)

Recommendations on Course Software

- Visual Studio Code

Course Policies

- Homework will not be accepted after its due date. We go over the solutions on the day it is due; thus, you cannot hand it in late.
- I do not take attendance; but I do get to know my students. If you never/rarely show for class, I will know.
- If you do not participate in class, copy/paste solutions from the web, you probably will not succeed in the exams, as they are challenging.

Grading Policies

Homework/Laboratories 10.00%
    Assignments will be given throughout the semester.
Midterm Examination 40.00%
    Covers all material up to the date of the midterm.
Project 10.00%
    Completion of a project and presenting it at the last meeting day (in-class) of the course.
Final Examination 40.00%
    Covers all material presented in the course.

Academic Honesty

The course is governed by the Boston University Academic Conduct for Metropolitan College. Cheating and plagiarism will not be tolerated in any Metropolitan College course. Cheating will result in no credit for the assignment or examination and may lead to disciplinary actions. You need to be aware of the information contained within this link (not just for my course, but all): www.bu.edu/met/for-students/met-policies-procedures-resources/academic-conduct-code

Course Schedule

Schedule* (Subject to change)

Week	Dates	Topics	Readings	Homework	Final Project Deliverables
Week 1	January 24, 2017	Introduction to HTML, Debugging, Using Version Control (Git/GitHub)	Duckett, Chapters: 1 through 5		**Think about your final project**
Week 2	January 31, 2017	Continuation of our HTML (Tables, Forms, Video and Audio)	Duckett, Chapters: 6 through 9	Homework #1 Due	
Week 3	February 7, 2017	In-class lab: full website development			**Stage 1: Statement of Project Document.**
Week 4	February 14, 2017	Introduction to CSS	Duckett, Chapters: 10 through 12	Homework #2 Due	
Week 5	February 21, 2017	**BU Holiday Substitution: Monday Classes to be held on Tuesday (No Class)**			
Week 6	February 28, 2017	Margin and Padding (Box Model), Using Pure and CSS layouts	Duckett, Chapters: 13 through 15	Homework #3 Due	**Stage 2: Sketch/Screen Shots of Progress.**
Week 7	March 7, 2017	**Spring Recess**			
Week 8	March 14, 2017	Introduction to JavaScript and Debugging	Haverbeke, Chapters 1 and 2		
Week 9	March 21, 2017	Functions and Control Structures	Haverbeke, Chapter 3 and in-class material.	Homework #4 Due	**Stage 3: Working Prototypes Due.**
Week 10	March 28, 2017	**Midterm Exam**			
Week 11	April 4, 2017	Events and Event Handling	Haverbeke, Chapter 14		
Week 12	April 11, 2017	Objects and Arrays	Haverbeke, Chapter 6	Homework #5 Due	
Week 13	April 18, 2017	Ajax, jQuery	Haverbeke, Chapter 17		**Stage 4: Final Projects Due.**
Week 14	April 25, 2017	Promises	in-class material		
Week 15	May 2, 2017	**Class and Project Reviews**			
Week 16	May 9, 2017	**Final Exam**			