

MET CS601

CS601: Web Application Development

This class focuses on HTML5, CSS 3+ and ES5/6 with ReactJS. Students should bring their laptops to every class for the hands-on laboratories. (Most of our learning comes from hands-on training and code reviews with the instructor.)

Instructor

<u>asheehan@bu.edu</u> Office hours - By appointment (Please reserve and time & place ahead of time..)

Clasroom Location

"CAS" - 725 Commonwealth Avenue. Room B06A

Required eBooks

- HTML and CSS Design and Build Websites (Free PDF/online)
 https://medium.com/easyread/e-book-node-js-notes-for-professionals-book-e13db79d7b08
- Exploring ES6

http://exploringjs.com/es6.html

¡Query

https://books.goalkicker.com/jQueryBook/

• Eloquent JavaScript

https://eloquentjavascript.net/Eloquent_JavaScript.pdf

React JS books (online; free)

https://books.goalkicker.com/ReactJSBook/

https://html5hive.org/wp-content/uploads/2018/04/The-Complete-Beginners-Guide-to-

React_Dyrr.pdf

https://www.valentinog.com/blog/redux/#React_Redux_tutorial_what_problem_does_Redux_so

Course Policies

- Homework will not be accepted after the due date.
- If you do not participate in class or do not show up, the professor does take notice.

Grading Policies

• Homework/Laboratories: 25%

• Midterm Examination: 25%

• Term Project: 25%

• Final Examination: 25%

Schedule

Week (Monday)	Topics	Readings
September 9	Course Introduction How to debug Values, Types and Operators Core HTML elements and their attributes The Document Object Model "DOM" Cascading Stylesheets (CSS)	• Eloquent: Chapters 1,2 and 8
September 16	Functions Control Structures Event Handling Cascading Stylesheets (CSS)	• Eloquent: Chapters 3, 15
September 23	More Event Handling Data Structures: Arrays, Sets and Maps Classes and Object Literals Destructuring, Spread Cascading Stylesheets (CSS)	 Eloquent: Chapters 4 and 6 developer.mozilla.com (for Set and Map)
September 30	Modules Callbacks, Promises async and await Cascading Stylesheets (CSS)	• Eloquent: Chapters 10, 11
October 7	Ajax: Using XHR, jQuery and Fetch/Axios Cascading Stylesheets (CSS)	 https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API jQuery PDF: Chapter 16 Eloquent: Chapter 18
October 15	Review for Midterm Exam	
October 21	Midterm Examination	
October 28	• ReactJS	Coverage: Architecture (High-Level) Create-React-App Components and JSX Handling Events
November 4	• ReactJS	Coverage: Routing State and Props Styling Components
November 11	ReactJS with Redux	State Management
November 18	ReactJS with Node	Coverage: • Services • Creating RESTful NodeJS API
November 25	Building a ReactJS application (hands-on lab)	
December 9	Term Project Presentations	
December 16	Final Exam	