

Web Application Development - MET CS401, MET CS601 (All sections)

The focus of this class is on HTML, CSS and Javascript. Students need to bring their laptops. Classes involve hands-on coding.

Instructor

Andrew Sheehan <u>asheehan@bu.edu</u>

Office Hours

Send an email with your request of a time and place and we can arrange a time.

Classroom Location

5 Cummington Mall, Room BRB 121

Course Policies

- Do not allow yourself to swayed by the influence of AI technologies to do your homework. Do the assignments by your own hands.
- We do not work in groups. Work is done individually.
- · Programming is learned by thinking, designing and lastly implementing. Not by copying.
- Homework submitted after the due date is frowned upon and your grade will suffer if you submit late.
- Your professor will not accept answers/submissions from students When the solutions are released.

Grading

• Homework: 20%

• Laboratories: 10%

Quizzes & Attendance: 10%Midterm Examination: 30%

• Final Examination: 30%

Books

All books are recommended but not required.

• Response Web Design

i. "HTML and CSS: Design and Build Websites", Jon Duckett https://www.amazon.com/HTML-CSS-Design-Build-Websites/dp/1118008189

ii. "Responsive Web Design with HTML5 and CSS: Build future-proof responsive websites using the latest HTML5 and CSS techniques, 4th Edition", Ben Frain

https://www.amazon.com/dp/180324271X/ref=sspa_dk_hqp_detail_aax_0?psc=1&sp_csd=d2lkZ2V0TmFtZT1zcF9ocXBfc2hhcmVk

Javascript

iii. https://exploringjs.com/es6.html

iv. https://eloquentjavascript.net/Eloquent_JavaScript.pdf

Day of Week: Wednesday	Summer 2025 Schedule of Events and Topics
Week #1 21-May	 Course expectations/planning Discussions on your local development environment Introduction to HTML Understanding inline and block elements, attributes Lists, images, headers and internal/external links
Week #2 28-May	 Variables and Javascript data types Introduction to declared functions Review of control structures Introduction to events HTML Tables and Forms
Week #3 4-June	Core CSS selectors Function expressions, arrow functions
Week #4 11-June	 Using Audio and Video controls ES6 Modules
Week #5 18-June	Midterm Examination
Week #6 25-June	 Using Bootstrap Introduction to Flexbox Understanding CSS Grids Pseudo-classes and pseudo-elements

Day of Week: Wednesday	Summer 2025 Schedule of Events and Topics
Week #7 2-July	 Media Queries Data Structures: Array, Set and Map Operations on data; using map(), reduce(), filter() and others
Week #8 9-July	 REST and Spread Object literals ES6 classes Introduction to Typescript
Week #9 16-July	 Promises async/await axios and fetch
Week #10 23-July	 Introduction to React Using hooks (context, state, effect, reference, etc) Understanding React Router Basics of NextJS
Week #11 30-July	Course review and project presentations
Week #12 6-August	Final Examination