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MMED - 1056

COURSE DESCRIPTION

Extending topics introduced in the first year, students will cover the Web design/development process in greater detail. Topics covered include basic and enhanced responsive site structure, local site management, CSS design, CSS layout applications and browser compatibility issues. Some use of Javascript will also be covered

COURSE LEARNING OUTCOMES

Upon successful completion of this course, you will be able to reliably demonstrate the following Course Learning Outcomes which will be taught and evaluated:

- 1.) Write valid, accessible and semantic markup leveraging HTML5;
- 2.) Debug and troubleshoot HTML/CSS code for Web pages;
- 3.) Develop and design responsive web pages/sites in various configurations using modern CSS layout techniques;
- 4.) Create and execute the planning of a multi-component project;
- 5.) Practice and apply techniques used to support older browsers;
- 6.) Develop HTML pages and assets for the integration of Javascript;
- 7.) Present and demonstrate products to clients;

GRADE BREAKDOWN

Homework - 40%

Mid Term - 30%

Final Integrated Project(FIP) - 30%

COURSE BREAKDOWN

MODULE 1 - CSS GRID CONTINUED

WEEK 1 *

- Course Intro, required software - [Visual Studio Code](#)
- CSS Grid Review, Flexbox basics
- Midterm & FIP - Assigned(Due week 7, week 14)

WEEK 2 *

- Dealing with browser inconsistencies (CSS Resets vs. Normalize)
- Building a mobile grid
- CSS typography (Google Fonts, @font-face)
- Homework #1 - Assigned(Due week 3)

WEEK 3 **

- Building a desktop grid and prototyping
- Site Build Utilizing CSS3 Features/Static Grid
- Homework #1 - Submission
- Homework #2 - Assigned(Due week 4)

WEEK 4 *

- Site Build Utilizing CSS3 Features/Static Grid
- Homework #2 - Submission

MODULE 2 - RESPONSIVE WEB DESIGN

WEEK 5 *

- Responsive Design Intro & Concepts (Mobile First)
- CSS3 Media Queries
- Homework #3 - Assigned(Due week 6)

WEEK 6 *

- Intro to Responsive Flexbox
- Homework #3 - Submission

WEEK 7 *

- Intro to Responsive Grid
- Midterm - Submission

WEEK 8 *

- Building our own grid framework (12 column responsive)
- Prototyping with our own grid framework
- Homework #4 - Assigned(Due week 10)

WEEKS 9-11 *

- Responsive Site Build using CSS Grid (Mobile First)
- Homework #4 - Submission (Week 10)

WEEK 12

- Alternative strategies/approaches to the site build

WEEK 13

- Open Lab

WEEK 14 *

- FIP Submission and Presentations

WEEK 15

- No Classes

ADDITIONAL LEARNING MATERIALS



[HTML Essential Training](#)

[Crafting Meaningful HTML](#)

[CSS Essential Training](#)

[CSS: Advanced Layouts with Grid](#)

Additional Reference

[HTML Tags](#)

[Semantic Tags](#)

LinkedIn Learning is available for free through <https://fcsww2.fanshawec.ca/portal/index.htm>. Look for LinkedIn Learning under My Bookmarks and Campus Links on the right side of the page. You will be prompted to login, using your FOL login credentials to access LinkedIn Learning. You will need to login first before you can click or copy and paste the above links.

HOMEWORK BRIEFS



HW #1 – FOLDER STRUCTURE & TYPOGRAPHY

Each Student must demonstrate the ability to properly set up a folder and include the necessary Javascript file and CSS reset (or normalize file).

The secondary focus of this assignment is typography on the web. Students will be given copy and a few images (related to the midterm) to work with. The goal is to prepare students for the midterm project by thinking about how they may handle typography in their project.

Each student is responsible for selecting appropriate fonts (using the techniques covered in class e.g. google fonts or CSS3 @font-face) and CSS styles to enhance the copy. Line Height, Letter Spacing, Font Weight, Colour and Type are the key components to this assignment.

The text will be placed on a single fixed width mobile sized web page (CSS Grid) with no other design elements other than the text and images provided.

Wireframe and XD file are required. The files must be uploaded to GitHub following the best practices taught in Authoring.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted within Week 3 class time.

- When I download from your repo, the zip file should be named = "LastName_FirstName_Project1-main.zip"

Due Week 3 in HW1 FOL Dropbox - (15% of final grade)

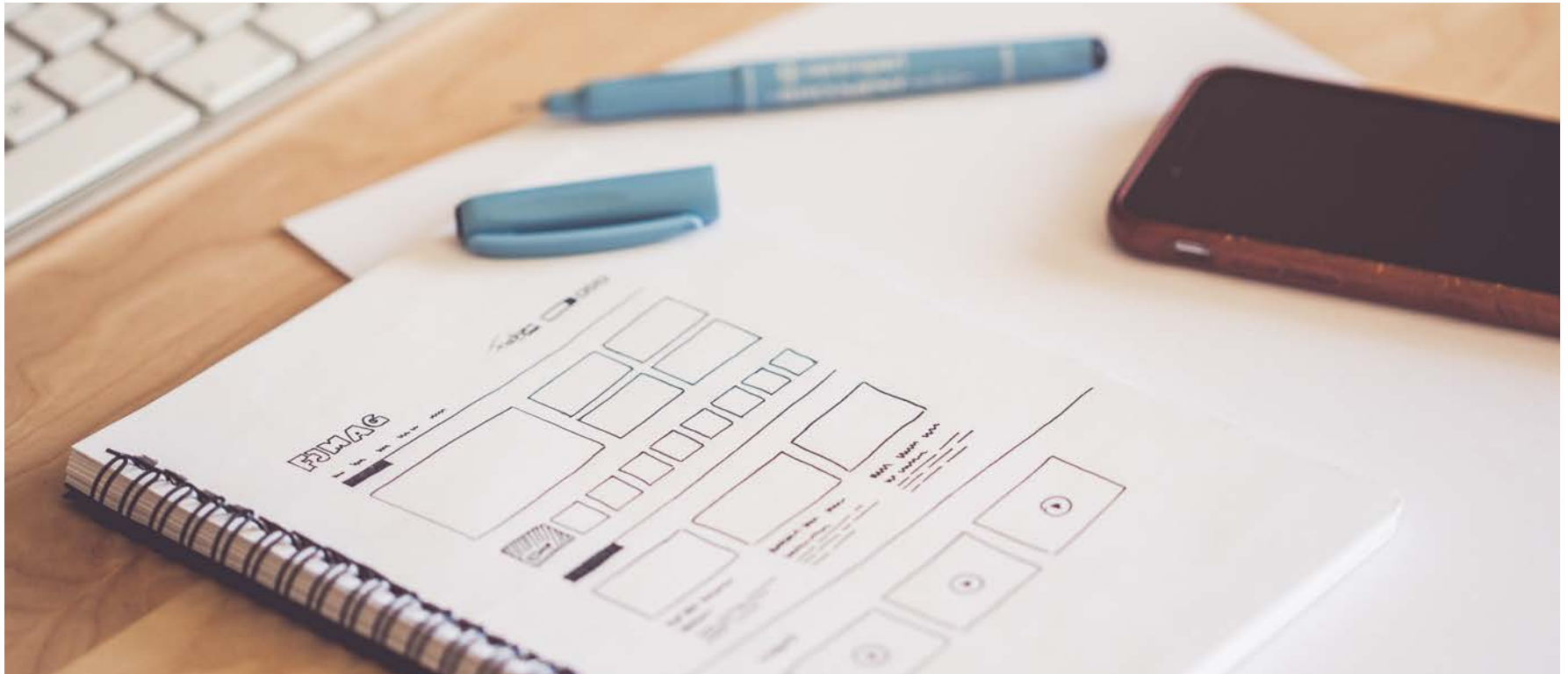
GRADING RUBRIC /15

Folder Setup & Naming /3

Valid HTML and CSS / 3

Doc Outline / 2

Typography & Design / 7



HW #2 – CREATE YOUR OWN MIDTERM SCAFFOLD

Each individual or team is responsible for creating their own midterm website scaffold consisting of Wireframes, Boxed XD Designs, HTML and CSS files. The scaffold will be based off of the wireframes selected from an individual or each partner.

Each individual or team is responsible for creating the following: 2 wireframes (PDF), 2 Boxed XD designs, 2 HTML pages (1 mobile, 1 desktop) a text file with box info i.e. measurements, font info, etc.

The pages must consist of valid HTML5 and CSS3. The pages must use semantic tagging and have a proper document outline.

Wireframes and XD file are required. The files must be uploaded to GitHub following the best practices taught in Authoring.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted within Week 4 class time.

- When I download from your repo, the zip file should be named = "LastName_FirstName_Project2-main.zip"

Due Week 4 in HW2 FOL Dropbox - (10% of final grade)

GRADING RUBRIC /10

Folder Setup & Naming /2

Valid HTML and CSS / 4

Doc Outline / 2

Text file with measurements / 2



HW #3 – MEDIA QUERIES

Create a basic example of a media query based on the specs below. You must follow best practice and work mobile first.

Each student must create a single web page with a basic example of a media query.

Create Single Web Page (4 Columns)

At mobile size (remember mobile first)

- The columns should stack and be full width.
- Columns 3 and 4 should be hidden
- Column 1 should be pink
- Column 2 should be red

At 641px the page will have

4 columns, equal width and display side by side.

Column 1 - blue, Column 2 - purple, Column 3 - grey, Column 4-brown.

The files must be uploaded to GitHub following the best practices taught in Authoring.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted within Week 6 class time.

- When I download from your repo, the zip file should be named = "LastName_FirstName_Project3-main.zip"

Due Week 6 in HW3 FOL Dropbox - (5% of final grade)

GRADING RUBRIC /5

Folder Setup & Naming / 1

Valid HTML and CSS / 1

Properly implemented media query / 3



MIDTERM/FIP

Each team or individual is responsible for designing, coding and semantically tagging, a static/fixed width, HTML5 website (using the CSS Grid). CSS3 must also be properly utilized throughout the site. 2 pages will be mobile size, 2 pages will be desktop size. A contact form/page must be present, no splash pages or single page scroll sites.

Students are strongly encouraged to submit a fully completed design for their website, however placeholder content such as stock photos and roughed out design files are permitted.

The 4 page website is to be based on the students own original layout (Not the templates provided last semester). Students are required to create the proper markup for the site and must make use of semantic tags.

Please refer to the Midterm (FIP) document for additional information.

The files must be uploaded to GitHub following the best practices taught in Authoring.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted Week 7.

- When I download from your repo, the zip file should be named = "LastName_FirstName_Midterm-main.zip"

Due Week 7 in Midterm FOL Dropbox - (30% of final grade)

GRADING RUBRIC /30

Folder Setup & Naming / 2

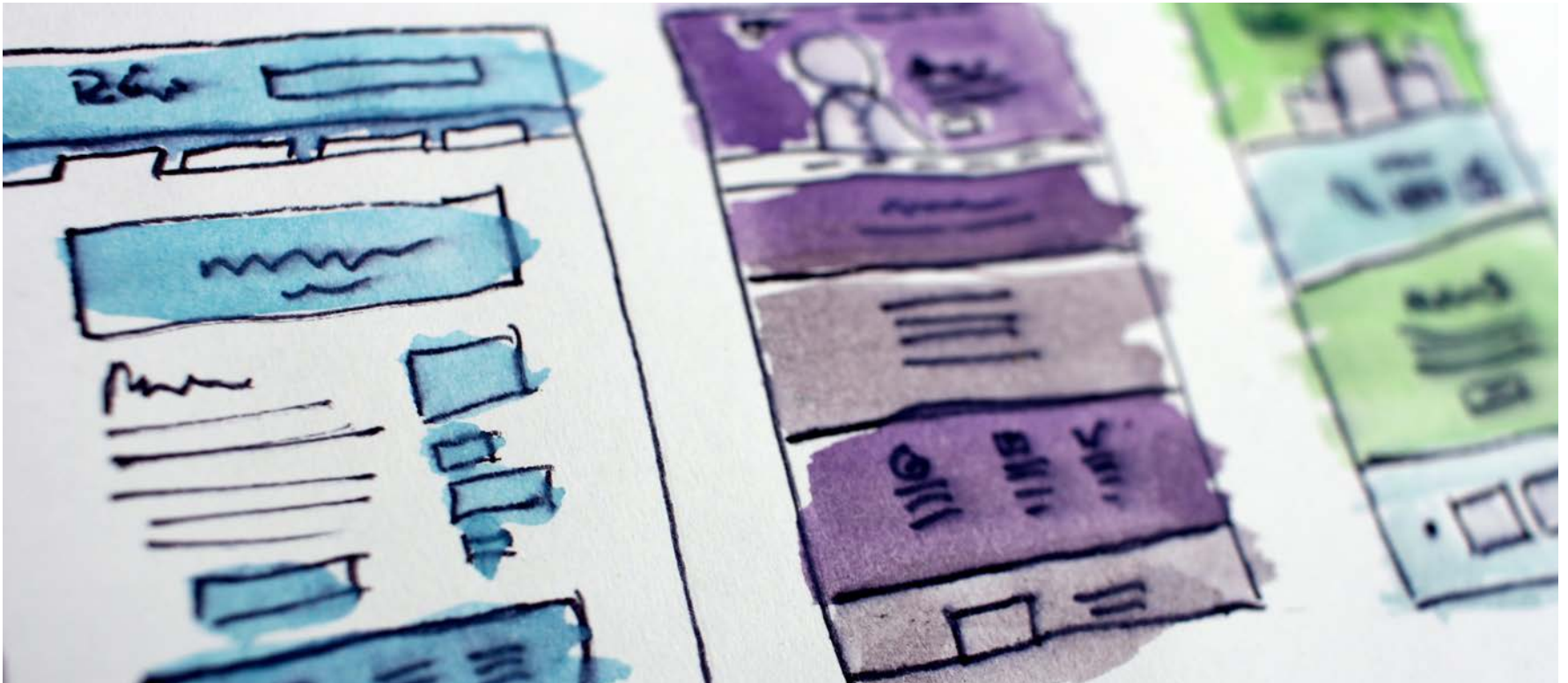
Properly submitted via GitHub (used versioning) / 4

Valid HTML and CSS / 6

Doc Outline / 4

Design / 8

Use of CSS3 (transitions, animations, border radius, etc.) / 6



HW #4 – RESPONSIVE PROTOTYPE FOR FIP

Each team or individual is responsible for building a mobile first responsive web page prototype using the CSS grid.

The objective is to create a responsive boxed out version of one of the wireframes you created for the final integrated project. Your HTML5 and CSS file must validate. Semantic tagging is required.

The files must be uploaded to GitHub following the best practices taught in Authoring.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted within Week 10 class time.

- When I download from your repo, the zip file should be named = "LastName_FirstName_Project4-main.zip"

Due Week 10 in HW4 FOL Dropbox - (10% of final grade)

GRADING RUBRIC /10

Folder Setup & Naming /1

Valid HTML and CSS / 2

Doc Outline / 1

Responsive Layout / 6



FINAL INTEGRATED PROJECT

Please Refer to FIP document on FOL for detailed Information about this project.

SUBMISSION REQUIREMENTS & DUE DATE

Project must be submitted Week 14

- When I download from your repo, the zip file should be named = "LastName_FirstName_FIP-main.zip"

Due Week 14 - Monday, April 10th, by 5pm EST, in FIP Dropbox - (30% of final grade)

Presentations will take place April 11th and 12th.

GRADING RUBRIC /30

Folder Setup & Naming / 1

Valid HTML and CSS / 5

Doc Outline / 3

Responsive from mobile to desktop / 7

Contextual Considerations (mobile specific nav, responsive images) / 3

Design / 6

Presentation / 5