CS 300: Project Guidelines

The goal of this project is for you to build a complete website. Your project will need to include HTML5, CSS3, and JavaScript/jQuery components. The site should be complete, validated, free of errors, and easy to use.

Note: In this class we are restricted to *client-side* development. This can be a serious restriction -- for example, you do not have access to a database.

Project Deadlines: *Late assignments will not be accepted.*

	Homework	Deadline	Points
Step 1	Choose Topic/Groups	Feb 25	5
Step 2	Project Proposal	Mar 3	10
Step 3	HTML (overall structure/content)	Mar 31	20
Step 4	CSS	April 14	20
Step 5	JavaScript/JQuery Final Project Website	May 5	20 25
		Total Points:	**100**

Step 1 (5 pts): Choose Topic/Group (due Feb 25)

Teams: You can work individually or as a group (no more than 3 people). If you choose to work as a group, coordinating group activity would be up to you since this is an online class. For each step, every group member must have an equal part in order for that individual to get full credit. You will also need to assign a group leader who should be someone organized who will submit the work before each deadline. That individual will also submit the names of the students who contributed to the project (by each deadline). If you do not participate with your group you will receive a 0.

Submission: Email me the following:
1. Project Title
2. Project Description (short couple of paragraphs description describing the topic)
3. Whether you are working individually or in a group.
4. If you are working in a group, email me the names of the team members (CC them as well) and who the team leader will be.

Choosing a Topic:

I You can think of a website you would like to make (it can be for a real client or made up). Some examples can be:
- A community center, religious organization, or non-profit that you are affiliated with
- A small business
- A school organization

Step 2 (10 pts): Project proposal (due March 3)

Submission: Dropbox

Make sure all the names of all project participants who collaborated are on this. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

1. Determine the rationale or focus - what type of website are you going to build?
2. Design Goals - What is the site going to look like?
3. Target Audience - Describe the audience that your site is intended to reach.
4. Main Elements - the number of pages & a brief description of the content needed for each page (site should be a minimum of 5 pages)
5. Limiting Factors - Identify any technical or audience factors that could limit the design goals of the site.

To view a sample proposal please click here:
http://cs.neiu.edu/~radler/cs300/Project/ProjectProposalSample.pdf

Step 3 (20 pts): HTML Submission (due March 31)

Submission: Dropbox (only one person per group needs to submit)

1. Type in the URL of your project.

2. Submit your HTML Structure for your final project in a .zip file.

3. Submit through the dropbox screenshots of the HTML validation of all of your pages.

4. If you are in a group, include a file stating which people in the group contributed to this part of the assignment and each of their contributions. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

HTML Structure Requirements:

1. Minimum number of web pages: 5

2. All HTML pages should have appropriate meta data and titles in their head sections.

3. All pages should have html content in place (headers, sections, lists, etc).

5. At least two HTML5 semantic elements one the main page.

Rather than having to create so many divs, HTML5 offers semantic elements (like section) that you can use directly: See http://www.w3schools.com/html/html5_semantic_elements.asp for a list of the HTML5 semantic elements.

6. You must have at least one list (unordered, ordered) or a table.

7. JavaScript and CSS do not need to be included at this point

8. A navigation structure should be in place on all pages. While the structure does not need to be formatted at this point, the links to the pages (done via <a> tags and the href attributes) should be functional.

9. Images should be in place, but not necessarily formatted (approx. 1 image per page). All image files should be placed in an images folder.

10. Any forms that you are using may be created later.

11. Each html page must be successfully validated!

12. Make sure to submit **a working URL** in addition to the zipped directory.

Step 4 (20 pts): CSS Submission (due April 14)

Submission: Dropbox (If you are working in a group, only one person needs to submit)

1. Type in the URL of your project.

2. Submit your code in a .zip file.

3. Submit through the dropbox screenshots of the **HTML** validation of all of your pages. (You do not need to do CSS validation.)

4. If you are working in a group, include a file stating which people in the group contributed to this part of the assignment and each of their contributions. If a student does not contribute to this part of the assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

CSS Submission Requirements:

Just as the HTML component contains the content of the website, the CSS component focuses on the look and feel, the style of the webpage. Ensure the site has a consistent and user-friendly look and feel. In addition:

1. Use at least 1 external CSS file, containing at least three class element, three id element, and three element type selectors.
2. Minimum of 2 declared font types.
3. In this component of the project the site should look professional.
4. Fix any corrections necessary from the HTML component (see HTML feedback if you did not receive full credit)

Step 5 (45 pts): JavaScript/Jquery + Final Project Submission (due May. 5)

JavaScript/Jquery Submission Requirements:

The JavaScript Component allows the user to interact with the website. Requirements:

1. The JavaScript shiv and the CSS workaround included for every page that uses HTML5 semantic elements.

JavaScript shiv: Older browsers ignore the HTML5 semantic elements. The below JavaScript code (to be inserted in the html head section) adds these new elements (aside, figure, etc):

```
<!--[if lt IE 9]>
<script src="http://html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
```

CSS workaround: in your CSS file include the below to make them block elements:

article, aside, figure, footer, header, hgroup, menu, nav, section { display: block; }

2. Two additional JavaScript or jQuery items of your choice used appropriately with your site.

3. Fix any previous concerns I had in previous project feedback.

Final Project (with JavaScript/JQuery) Submission (Dropbox AND Discussion Board)

I Via D2L Dropbox: (If you are a group, one person can submit)

1. **All project code zipped.**

2. **All HTML validation screenshots (you do not need to do the CSS validation).**

3. For those in a group, document stating who worked on this part of the project and each of their contributions. If a student does not contribute to this part of the

assignment, that student will receive a 0. If a student contributes much less than the other students in the group, points will be deducted accordingly.

II Via Discussion Board (If you are in a group, one person can post – but each group member must comment on other group's posts, see below)

1. I'd like us all to see how each other did. Please post a link to your website on the D2L **discussion board** titled Final Project URLs. (If you are working in a group, one person can post it, but **each** group member must reply to two groups' project websites, see next step).

2. **Comment on at least 2 other groups' project websites** via the D2L discussion board**.**

Final Project Website Requirements (checklist):

1. Minimum number of web pages: 5

2. Use at least 1 external CSS file, containing at least three class element, three id element, and three element type selectors.

3. Minimum of 2 declared font types.

4. Images – approximately one per page.

5. Use at least 1 form, with a minimum of 3 form elements, to gather information. You should have at least one required field, and validate at least one. (NOTE: If your page really does not require a form – i.e., it will be used for a purpose where a form is not needed – you should have something else implemented that is of equivalent difficulty.)

6. Navigation bar for visitors containing links to all the pages within the site (does not need to use jQuery).

7. One list (unordered, ordered) or a table. (Note: Navigation bar does not count as the list)

8. At least two HTML5 semantic elements.

9. The JavaScript shiv and the CSS workaround included for every page that uses HTML5 semantic elements.

10. Two JavaScript or jQuery items of your choice used appropriately with your site (note: the JavaScript shiv does NOT count).

11. Entire site must be validated with the HTML validator (You do not need to use the CSS validator). Submit proof with screenshots for each page within the site.