IS 337 Test 1 Information

This written test will cover the material on project management, the web, HTML, CSS, and HTTP. You will be given copies of the one-page HTML and CSS2 reference documents handed out in class, which you should return when you turn in the test. The material covered includes the handouts (one on project definition, one on HTML, three on CSS), the PowerPoints, the homework assignments, and the labs. Material on the handouts is especially likely to make it onto the test. The questions will be objective, short answer, fill in the blank, and questions that ask you to write a line or two of HTML or CSS or to say what effect a line of CSS would have. Sample topics and questions:

HTML
- What does a DNS server do?
- Name four syntax differences between HTML4 Strict and XHTML
- Character encodings: UTF-8 vs. Latin-1.
    - True or false: all Web pages use Unicode?
    - Name two ways of specifying the character encoding of a web page.
    - How many bytes per character are used by a Latin-1 page? UTF-8?
- Which is better for italicizing something -- <i>, <em>, or <cite>? Why/in what circumstances?
- What is semantic markup?
- Name three different ways to make two columns in a Web page (not using HTML5). What are the drawbacks and advantages of each?
- How in a Web page can you specify that it is written in HTML 5?

URLs
- Scheme, authority, port, path, fragment identifier, parameters
    - Identify each part in http://www.example.com:8080/file.html&format=print#page2
    - Name four common protocols other than http that can occur in a URL.
- How would the following URLs behave differently if a directory of files were moved to a different location on the same computer, or to a different computer?
    - http://www.ccel.org/ccel/kempis/imitation.iv.html
    - /ccel/kempis/imitation.iv.html
    - imitation.iv.html

CSS
- Why is it usually a good idea to separate style and content by keeping HTML and CSS separate?
- Name three ways of adding CSS rules for an element in an HTML file.
    - Which would be best when you wish to reuse styles across several Web pages?
- @import, @media
    - How can you specify CSS rules that only apply when the document is printed?
- How could I write a CSS rule to add icon.png before any external link?
- Suppose that a div is given the following CSS (using position: relative, position:absolute, and position:fixed). How will the rendering changed?
- How could I write a CSS rule that makes the text of the first paragraph of a div 20% larger?
- How could I write CSS to make a drop-cap out of the first letter of the first paragraph of a div?
- How could I write a CSS rule that makes text 80% as large when a page is printed out?
- Compute the specificity of the following selectors (which will be given). Which is highest?
- In the given box diagram label the areas for offset, padding, margin, border
- What is responsive design? What are the guidelines for responsive design covered in class?
- Explain the principals of CRAP design for Web pages

HTTP
- What are HTTP request/response headers?
- Request types: GET, HEAD, POST, PUT, DELETE
- Response codes: e.g. 200, 404, 301
- Response headers: Location, Content-encoding, Referer, Refresh, Cookie
- How could you use HTTP response headers to cause a page to refresh every 10 seconds?
- How do cookies get set on a client? How and when do they get sent back to the server?
- What differences are there in using GET and POST for forms processing?
- What is an HTTP proxy? What can it be used for?
- Why shouldn't you let URLs go stale, but instead rewrite them so the old URL forwards to the new document? How can that be done in HTTP?