See the course web site at http://openlib.org/home/krichel/courses/lis650p07s for the latest online version of this file.

**Course Description**
This course focuses on the construction of a web site. Students learn how web sites work, how to build them, and how to build them well. Students are provided with free web space where they can design their own sites. This web space continues to be available after the course ends.

The course is not conducted using an application package to generate pages. Instead, students are taught how to hand-code the pages. The emphasis is on the use of standard compliant XHTML 1.0 and CSS level 2.1. Validity control is an integral part of the composition process. Students are allowed whatever tool they wish to use to create their sites, but final project sites must be standards compliant.

The course covers all of HTML, except the following

- forms
- frames
- scripting objects
- minor points of table construction
- and some other minor features.

The course covers most, but not all of CSS 2 revision 1. At the time of writing, this is a W3C working draft. In addition, the course covers the issue of web site design. There is a special lecture on this topic once the bulk of the technical material has been covered.

**Course objectives**
After taking this course students

- will be able to interact with a UNIX based server for storage and retrieval of pages;
- will understand fundamental concepts of http;
- will have sufficient knowledge of HTML in order to create simple but interoperable pages;
- will have sufficient knowledge of CSS in order to create simple style sheets;
- will have a grounding in information architecture and web usability

**Prerequisites**
There are no other formal prerequisites for this course. However this course is not suitable for computer neophytes or technophobes. Students should have been using the web before. They should be able to use a Microsoft Windows computer, e.g. click on an icon to run a program, cut and paste between applications, copy files from one location to another. Students should also be familiar with basic concepts of computer hardware and software, concepts like files, memory, as well as an having an understanding of the Internet and of client/server architecture. Everything that goes beyond that is explained in class or by personal tuition the instructor. No prior knowledge of HTML and CSS is assumed.

**Instructor**
Thomas Krichel
Class structure

Classes are held in the PC lab of the Palmer School on Saturday between 11:00 and 16:00. The instructor promises to be there shortly after 10:00 for extra help and questions. Each class has a lengthy presentation by the instructor. For some small part of class time the students work directly with their computers under the supervision of the instructor. However, give the hefty weight of the class material, students are expected to do much of the work on their web site at home. To support the students in this process, the instructor will be on campus in extra sessions for students who need additional support. Support via skype is available pretty much around the clock, i.e. unless the instructor is moving around or is asleep.

Class details:

2007–01–27 11:00 to 16:00 introduction to the course and to XML
2007–02–03 11:00 to 16:00 HTML
2007–02–10 11:00 to 16:00 CSS part 1 and page design
2007–02–17 11:00 to 16:00 no class
2007–02–24 11:00 to 16:00 CSS part 2 and content design
2007–03–03 11:00 to 16:00 CSS part3, accessibility and site design
2007–03–10 11:00 to 16:00 javascript, http and apache

Slides for all classes are downloadable from the course web site. The slides posted on the site are drafts until the time that the class is held.

Readings

The technical specifications of HTML and CSS are on the web. XHTML 1.0 is defined in Group (2002). To understand it, you need to refer to the definition of HTML 4.01 in Raggett, Le Hors, and Jacobs (1999). CSS level 2 revision 1 is defined in Bos, Çelik, Hickson, and Lie (2004). http is defined in Fielding, Gettys, Mogul, Frystyk, Masinter, Leach, and Berners-Lee (1999). URLs are defined in Berners-Lee, Masinter, and McCahill (1994), but that definition was updated in Berners-Lee, Fielding, and Masinter (1998). MIME types are documented in IANA (2001). The documentation of Apache is online at http://www.apache.org.

As far as the design of web sites is concerned, Krug (2005) and Nielsen (2000) are classic references. The most relevant contents of these books is covered in the course, but there are also bits and pieces from various web sites. Morville and Rosenfeld (2002) is a book on information architecture, but is so boring that is no longer covered. Recently I have been made aware of of Health and Services (2006).

If students want a textbook on HTML and CSS, they are spoiled for choice. However, students should be aware that most books teach the loose version of HTML and place much less of an emphasis on style sheets than the course contents does. This is a really LIS-style course with an emphasis on separation of contents and presentation.


Finally, the following mailing lists are worth subscribing to.

- Web4Lib at http://lists.webjunction.org/web4lib/ is a US-based list that specifically deals with the issues if library web site.
- WEB-SUPPORT at http://www.jiscmail.ac.uk/lists/web-support.html is a UK-based list that deals with the issues if web services in academic environment. Discussions tend to be a bit more technical than on Web4Lib.

Mailing list
There is a mailing list for the course at https://lists-1.liu.edu/mailman/listinfo/cwp-lis650-krichel. All students are encouraged to subscribe. As a rule, answers to email sent to the instructor are copied to the list. There are exceptions to this rule:

- if the question writer requests the answer not to be posted;
- if the question is a purely private matter.

**Assessment**

Before each class except the first, there is a quiz on the issues covered in the previous class. The average of all the quiz results counts for 5/12 of the assessment. The worst performance in a quiz is discounted. On the second class meeting, the students hand in a one-page typed statement about the web site that they want to build. This statement should cover both the purpose of the web site and the site's architecture. The assessment of this statement counts for 1/12 of the grade. On the last meeting, students also hand in a web site assessment. This assessment should cover the web site of a LIS academic department in the US or abroad. The assessment should not aim to describe the web page, but assess its strength and weaknesses in terms of the usability criteria reviewed in the class meeting from the week before. The assessment should roughly be two typed pages long. If students don’t like the first grade they get on the assessment are given a chance to improve it. The web site assessment counts for 2/12 of the course.

The remaining 4/12 are assessed through the student's ability to build a web site. The site must validate against the strict version of the XHTML 1.0 specification. The site must have a style sheet with the main presentational elements. The site should provide an information source about a topic, though it need not be comprehensive by any means. Students are recommended to develop the web site on behalf of some other person. That person may useful feedback on the site to help to avoid creating something that is too designer-centered. The informational contents of the site should go beyond simple link collections or path finders. Personal web sites, such as for the student describing herself, are not allowed. However students may built a personal site for someone else. The total amount of information contained should roughly be equivalent to a conventional student essay. It has to be finalized one week after the last class.

**Students**

Lauren Frawley¹
Nicole Caliguiri²
Meena Dhawan³
Amy Badagliacca⁴
Frank Orlando⁵
Daniel Sokolowski⁶

**Design sins**

Here is a checklist of common design sins:

- title element different for each page, and meaningful?
- pages linking to themselves?
- src= attribute in points to external image?
- absence of scaling for images?
- height= and width= on <img/> not giving the natural size of the picture.

**References**


1http://dlib.info/home/laurenfrawley/
²http://dlib.info/home/nicolecaliguiri/trial.html
³http://dlib.info/home/md/Homepage.html
⁴http://dlib.info/home/asb/
⁵http://dlib.info/home/orlando/
⁶http://dlib.info/home/danielsokolowski/AussieHoliday.html


