CISC-103: Web Applications using Computer Science

Instructor: Debra Yarrington
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Office: 411 Smith Hall
Class Location: 303 Gore Hall
Class Time: MWF 1:25 – 2:15
Lab Location: 028 Memorial Hall

Lab Times:	020	F	9:05 – 9:55am
	021	F	10:10 – 11:00am
	022	F	2:30 – 3:20pm

Prerequisites: None

COURSE DESCRIPTION

This course teaches basic Web Applications using computer science. In this course you will learn basic computer science principles through the use of HTML5 and CSS and by programming in JavaScript. This course also offers a basic introduction to Adobe Photoshop and Adobe Dreamweaver.

COURSE OBJECTIVES:

By the end of course, you should be able to do all of the following.

- Create simple web pages by hand editing HTML5, CSS and JavaScript files.
- Identify the syntax and semantics of the most important HTML elements.
- Explain various aspects of validation of web documents, including:
  - the benefits of writing "valid" HTML
  - identifying and avoiding common validation errors in sample HTML code
- Explain basic techniques for making web pages accessible to users with different disabilities
- Use various syntax features of the CSS language.
- Explain the difference between static and dynamic web pages.
- Demonstrate an understanding of basic programming skills in JavaScript, including:
  - writing functions
  - using variables
  - using arrays
  - using control structures including if/else if/else
  - controlling flow of code by looping.
  - distinguishing between array values and array indices.
- Distinguish between a web client and a web server
- Demonstrate why and how to include comments in HTML, CSS and JavaScript code.
- Explain what an object is in JavaScript
- Develop and edit image files using Adobe Photoshop
- Create a basic web page using Adobe Dreamweaver

TEXTBOOKS AND EQUIPMENT NEEDED:

- E. Freeman & E. Robson: ***Head First HTML5 Programming: Building Web Apps with JavaScript***
- **A jump/flash memory drive**. You'll want to save a copy of each lab. If you are using the University's computers, I suggest bringing a flash drive to lab - certain labs are too large for many email programs.
- **Suggested: A laptop that you can bring to class**. In this class you will be working with a partner for many in-class assignments. At least one of you must have a laptop that you can and will be expected to bring to class regularly. Get used to it. Not bringing your laptop is not an excuse not to work, or to leave class.

CLASS RULES:

1. **Failing all three exams is automatic failure in this course, regardless of lab scores**
2. **If you don't attend class, don't expect to pass this course**
3. **Failing to remove your lab from University computers will result in losing 25% off your lab.**
4. **All labs, projects and homeworks must be uploaded to the University's web server and the url submitted via Sakai (if you don't know what this means, you will after the first week or so of class). Failure to submit your labs/projects/homeworks through Sakai will result in an automatic 0 on the assignment.**

ATTENDANCE POLICY:

- **Lab attendance is MANDATORY** See **Lab** section for details.
- Attendance in lecture, though not mandatory, is expected. You are responsible for anything taught or announced in lecture. If you choose not to come, it is your job to coordinate with your partner and find out what is going on without extra help from me. **This includes class notes!** You have a partner – use him or her! If you need extra help, I expect to see you in office hours.

EMAIL:

Email is the only consistent method of communication I have with the entire class. It is imperative that you know that you are receiving mail from the class list. Anything mailed at least 24 hours prior is considered your responsibility to know. It may be very helpful to check email before, during or after any unusual event (i.e. power outages, snow, tests, holidays) Check the UD Homepage for any University wide cancellations.

LABS:

You may need to complete the lab assignments outside of class time; if you do not have the necessary software on your computer, you may either come in and use a free machine in your lab or use another PC lab on campus that has compatible software.

Learn your Section number and the name and email address of your TA!

Lab session attendance:

Lab attendance is REQUIRED!

Lab session attendance is mandatory. If you cannot make your lab session, you can upload your completed lab to Sakai **prior** to the lab session (NOT the lab's due date). If you do this you will still receive credit for lab attendance.

A place is reserved for you during lab time. It is the only time you can be GUARANTEED access to a machine, the lab materials, the software and the Teaching Assistant (TA). *To receive full credit for attendance, you must attend the lab session until you have COMPLETED the lab being worked on that day, NOT the one that is due. If you leave early without turning in that day's lab, it will be considered an absence.*

Keep your TA informed about planned absences. Send email just prior to or immediately after any absence from LAB, even if you've told the TA ahead of time. This makes record keeping so much easier.

You are allowed 3 absences from lab. If you miss more than 3 labs, you will receive a 0 for lab attendance. You are still required to turn in the lab assignment by the due date. Notes attesting to visits to the infirmary will NOT result in an excused absence from lab.

Lab assignments:

Labs are due Thursday at midnight unless otherwise instructed.

Labs turned in after the due date are considered late. For each day late, you will lose an additional 10%. Labs will not be accepted after 7 late days.

IMPORTANT - Keep all labs available until the end of the semester as proof in case there is a problem.

EXAMS:

Attendance is MANDATORY for all exams. Exams cannot be taken later. If you have an excused absence, the exam will not be included in the computation of the final grade and the other exams will be weighted extra. If an exam is missed because of an unexcused absence a score of 0 will be included in the computation of the final grade.

The Final Exam is **cumulative**. Final Exam Schedules are not known until halfway into the course. *Do not plan to leave before the end of exam period.* This class has often had its final on the last possible day.

ACADEMIC DISHONESTY:

Collaboration with others in the class is ENCOURAGED for any in-class work. Copying anyone's work is considered Academic Dishonesty and will be prosecuted.
Collaboration of any kind is PROHIBITED during Exams.

Copying any other person's work (off the Internet, for example) without proper acknowledgment is plagiarism, a serious offense, and the one most common to computer science courses.
Anyone that aids another student in copying or with work that is expected to be done without collaboration is as guilty as the person who seeks help. Both will be prosecuted. It is strongly recommended that you familiarize yourself with the University's Policy of Academic Dishonesty.

Please be advised that the University of Delaware Academic Honesty & Dishonesty Policy is taken seriously by this Instructor and NOTE WELL that it will be followed in the conduct of this course. This policy covers all forms of

- Plagiarism, including "copying, or allowing another student to copy, a computer file that contains another student's assignment, and submitting it, in part or in its entirety, as one's own";
- Fabrication, including "submitting as your own any academic exercise (e.g., written work, printing, sculpture, etc.) prepared totally or in part by another";
- Cheating, including "copying from another student's test paper, allowing another student to copy from a test paper, collaborating on a test, quiz, or other project with any other person(s) without authorization"; and
- Academic Misconduct, including "other academically dishonest acts such as … taking part in obtaining or distributing any part of an unadministered test".

Course Assignments:

All reading assignments, homeworks, and labs will be posted to the course Web site (http://www.eecis.udel.edu/~yarringt/103).

Grading:

GRADING:		**Total % --Grade**
Labs	14%	>=95% -- A
		>=90% -- A-
Lab Attendance	3%	>=87% -- B+
Homework	5%	>=83% -- B
Web Site	15%	>=80% -- B-
JS Project	15%	>=77% -- C+
Exam 1	14%	>=73% -- C
Exam 2	14%	>=70% -- C-
Final Exam	20%	>=67% -- D+
		>=63% -- D
TOTAL POSSIBLE	**100%**	>=60% -- D-

Week of	Tentative Course Schedule
Feb 10	Syllabus /Internet Basics (hwk 1, due Sun Feb 16)
Feb 17	HTML Template, basic tags, tables (hwk 2, due Sun Feb 23)
Feb 24	HTML: basic tags, images, links (hwk 3 due Sun, Mar 2) *Feb 24: Last day to add a course*
Mar 3	HTML: forms (hwk 4 due Sun, Mar 9) CSS: Adding CSS, , inline styling, text styling, borders
Mar10	CSS: margins, padding, background images, div (hwk 5 due Sun, Mar 16)
Mar 17	CSS: Span, Class, Id, positioning (hwk 6 due Sun, Mar 23)
Mar 24	**Web Page due** ***Exam 1 (Fri)*** *(Mar 28 – Freshman Midterm Grades Due)*
Mar31	Spring Break: No classes
April 7	JavaScript: write, variables, prompt, if branching (hwk 7, due Apr 13)
April 14	JavaScript: random numbers Arrays, getElementById, innerHTML (hwk 8, due Apr 20)
April 21	JS getElementById, innerHTML, confirm, comments *April 22:Last day to withdraw without penalty*
April 28	JS comments, debugging, functions, calling Functions
May 5	JS: functions, calling functions, parameters, loops **Exam 2**
May 12	JS: loops
May 19	Last day of classes *May 20: Reading Day (no classes or exams)*
May 26	**Finals** May 26: Memorial Day (no exams) *May 29: Last day of finals*

CISC-103Lab Schedule

(Do not remove any graded work until after the semester and you know your final grade!)

Date		Lab	Due Date
Feb 14		**No lab**	
Feb 21	**Lab 1**	**Uploading Lab**	**Feb 27**
Feb 28	**Lab 2**	**Photoshop Lab 1**	**Mar 6**
Mar 7	**Lab 3**	**Photoshop Lab 2**	**Mar 13**
Mar 14	**Lab 4**	**Photoshop Lab 3**	**Mar 20**
Mar 21	**Lab 5**	**Photoshop Lab 4**	**Mar 27**
Mar 28	**No Lab**	**No Lab**	
Apr 4	**No Lab**	**Spring Break**	
Apr 11	**Lab 6**	**Dreamweaver Lab 1**	**Apr 17**
Apr 18	**Lab 7**	**Dreamweaver Lab 2**	**Apr 24**
Apr 25	**Lab 8**	**Programming Lab 1**	**May 1**
May 2	**Lab 9**	**Programming Lab 2**	**May 8**
May 9	**Lab 10**	**Programming Lab 3**	**May 15**
May 16	**Optional**	**Programming Help**	