Multimedia & the World Wide Web

Winter 2016 Quarter
HCI 201 section 201

Class Meeting Times: Tuesdays, 1:00 PM to 2:30 PM
Thursdays, 1:00 PM to 2:30 PM

Classroom Location: Student Center (STDCT)
2250 N. Sheffield Ave. Room 364

Instructor: Sal J. Barry
Email: sbarry5@cdm.depaul.edu
Cell: 312-320-4378
Websites: http://d2l.depaul.edu

Office: STDCT 364 (same room as our classroom)
Office Hours: 30 minutes before class (Tuesday & Thursday)
30 minutes after class (Tuesday & Thursday)
Or Mon. & Wed. by appointment.

Course Description: An introduction to the World Wide Web and web development for non-technical majors. Students will create web pages using a text editor. Students will evaluate web sites using a variety of analytical and empirical methods. Students will conduct technology-related experiments following the principles of the scientific method and use technology to analyze their results. Topics include web-based technology, creating content for distribution on the web, and design principles for web sites. Students will develop an appreciation for the connections among science, mathematics, and technology in modern society, as well as for the principles guiding advances in science and technology.

Prerequisites: None.

Learning Domain Description: HCI-201: Multimedia & the World Wide Web is included in the Liberal Studies program as a course with credit in the Scientific Inquiry domain. Courses in the Scientific Inquiry domain are designed to provide students with an opportunity to learn the methods of modern science and its impact on the world around us. Courses are designed to help students develop a more complete perspective about science and the scientific process, including: an understanding of the major principles guiding modern scientific thought; a comprehension of the varying approaches and aspects of science; an appreciation of the connection among the sciences; the fundamental role of mathematics in practicing science; an awareness of the roles and limitations of theories and models in interpreting, understanding, and predicting natural phenomena; and a realization of how these theories and models change or are supplanted as our knowledge increases.

Writing Expectations: Writing is integral for communicating ideas and progress in science, mathematics and technology. The form of writing in these disciplines is different from most other fields and includes, for example, mathematical equations, computer code, figures and graphs, lab reports and journals. Courses in the SI domain must include a writing component where that component takes on the form appropriate for that course (e.g., lab reports, technical reports, etc.).

Learning Outcomes

1. Students will understand the major principles guiding modern scientific thought. Students will demonstrate a mastery of the science content knowledge of their SID courses.
2. Students will know that science, technology, and math serve as mechanisms for inquiry into the nature of the universe. Students will:
   a. identify questions that can be answered through scientific investigations;
   b. design and conduct a scientific investigation to test a scientific hypothesis;
   c. use appropriate tools and techniques together, analyze, and interpret data to support or refute a scientific hypothesis;
   d. develop descriptions, explanations, predictions, and models using evidence;
   e. describe relationships between evidence and explanations using critical and logical thinking;
   f. recognize and analyze alternative explanations and predictions;
   g. communicate scientific procedures and explanations;
   h. use mathematics in all aspects of scientific inquiry.
3. Students will understand and appreciate the interrelationships among science, technology and math. Students will:
   a. use technology and mathematics to identify a problem or design a solution to a problem;
   b. give examples of how science and technology inform and influence each other.
4. Students will understand and appreciate the role of science in society and in their lives. Students will:
   a. Provide examples of how science and technology impact our lives, and how social needs and concerns impact our development of technology and scientific investigation;
   b. develop positive attitudes towards science, technology, and mathematics;
   c. establish an ongoing experiential/service-learning interest in science, technology, and mathematics.
5. Students will understand the nature of science, technology, and mathematics. Students will:
   a. provide examples of the abuse of science, including the representation of unfalsifiable claims as science and other forms of pseudoscience;
   b. explain the strengths and limits of scientific inquiry;
   c. explain the difference between evidence and inference, and the provisional nature of scientific explanations by providing examples of how our understanding of the workings of the world has changed in the past;
   d. explain the difference between probability and certainty, and describe what is meant by uncertainty in the context of science, technology, and mathematics.

Grading: The grade breakdown for this class is as follows:

Attendance/Participation**	10%
Homework Assignments (2)	10%
Project #1	5%
Project #2	10%
Project #3	15%
Quizzes (4)	20%
Group Project Proposal	10%
Group Project Website	20%

Attendance Policy: You are expected to attend every class this quarter. We will cover a lot of material in this class, and missing a class can set you back - especially with the technical topics such as HTML and CSS.

More than three (3) absences will adversely affect your grade.

If you know you are going to miss a class, contact your instructor as soon as possible so that alternate arrangements can be made (for submitting homework, making up a quiz and so forth).

Required Materials:

- USB Thumb Drive (2GB or larger)
- Folder for keeping/organizing handouts
- Notebook
- Pens, pencils

Required Software: You will need a computer or access to one in order to complete the assignments and projects for this class. You will need to download and install two FREE programs for use in this class.

1. Free HTML editor. We will use Komodo Edit in this class. You can download it here:
   http://komodoide.com/download/#edit
   (Download for Windows or Mac)

2. Free File Transfer Protocol (FTP) program. We will use Filezilla in this class. You can download it here:
   https://filezilla-project.org/
   (Be sure to download Filezilla Client -- not Filezilla Server)

Other FREE software may be recommended during the quarter for use in this class.

Computer Requirements: You will need access to a computer with internet access outside of this class. The College of Computing and Digital Media has several open computer labs in the Student Center in Lincoln Park (classrooms 363 & 364) and in the CDM building (243 S. Wabash Ave., 1st floor and 4th floor).

Textbook: No textbooks are required, though some online reading may be assigned.

Course Management System:
All course materials will be posted to Desire 2 Learn (D2L) Web: http://d2l.depaul.edu

Homework & Projects

During the Quarter, Homework and Projects will be assigned. You will receive a separate handout for each assignment or project. Your instructor will give you instructions on how to submit homework and projects.

Quizzes: During the Quarter, 4 quizzes will be given. It is imperative that you attend classes on quiz days. **I do NOT give "surprise" quizzes. The date of every quiz is listed on the schedule (last 3 pages of this syllabus).** Should you need to miss class that day, it is the student's responsibility to make up that quiz within one class of when the quiz originally took place. Otherwise, no credit will be given.

Homework and Projects: There are only 2 homework assignments for this class. However, the bulk of the work in this class will be 3 personal website projects and a group project that consists of a proposal paper, scientific study and final website to showcase your results. Instructions detailing each project or assignment will be provided by your teacher. Projects are due on their assigned due date. Late projects drop one full letter grade (10 points) each class they are late.

Collaboration vs. Cheating

The goal of assignment and projects are to practice the concepts taught in class. You are expected to do your own assignments and projects. However, some collaboration with other students is allowed and even encouraged. The following types of collaboration are allowed:

- Discussing strategies for solving a problem
- Explaining why a web page does not work (de-bugging code)
- Reviewing and testing someone else's web pages
- Using HTML, CSS and JavaScript code provided by the instructor and texts

The following types of collaboration are not allowed:

- Copying someone else's HTML, CSS or JavaScript code
- Literally telling someone what code to write
- Using a third-party service to create a website for you (i.e. WordPress)

Engaging in these last three types of collaboration will be considered a violation of the university's policy on academic integrity. Violators will receive a 0 for the corresponding assignment and will be reported as required by the policy.

College Policies

Email: Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at CampusConnect is correct.

Incomplete: An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

Online Course Evaluations: Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in CampusConnect.

Academic Integrity and Plagiarism: This course will be subject to the university's academic integrity policy. More information can be found at http://academicintegrity.depaul.edu. If you have any questions be sure to consult with your professor.

Academic Policies: All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading and incompletes can be found at: cdm.depaul.edu/enrollment.

Students with Disabilities: Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at:

csd@depaul.edu
Lewis Center 1420, 25 East Jackson Blvd.
Phone number: (312)362-8002
Fax: (312)362-6544
TTY: (773)325.7296

Class Schedule for the Winter 2016 Quarter

Week #	Class #	Date	Lecture / Class Topic
1	**1**	Tuesday, January 5	Review Syllabus Student Introductions Web Topics • Terminology • Main structure tags • Formatting text Science Topics • A01 What is science?
1	**2**	Thursday, January 7	Science Topics • A02 Origins of Scientific Method • A03 Intro to Scientific Method • A04 Problem with the Scientific Method Discuss Assignment 1
2	**3**	Tuesday, January 12	Science Topics • B01: Your Course Project Proposal • B02: Working in a Group • B03: Identifying your Topic **Assignment 1 due today** Form groups, start researching topic.
	4	Thursday, January 14	Science Topics • B04: Formulating your Hypotheses • B05: Document Styles • B06: Writing Survey Questions • B07: Conducting Background Research Develop hypotheses for Science Project Proposal Develop questions for Science Study
3	**5**	Tuesday, January 19	**Quiz 1** Science Topics • B08: Pilot Testing • B09: Method • B10: Hypothesis – Theory Wrap-up Continue creating your Science Survey questions
	6	Thursday, January 21	Pilot testing your survey questions

4	**7**	Tuesday, January 26	Web Topics • Formatting text • <DOCTYPE!> declaration • Anatomy of a URL • Links/Hyperlinks • FTP Discuss Assignment 2
	8	Thursday, January 28	Web Topics • Images for the web • Refining and saving images for the web
5	**9**	Tuesday, February 2	**Quiz 2** **Assignment 2 due today** Discuss Project 1
	10	Thursday, February 4	**Science Project Proposals due today** Web Topics • Type • Introduction to CSS • CSS text formatting • CSS for page background
6	**11**	Tuesday, February 9	In-class feedback on Group Project Proposals
	12	Thursday, February 11	**Project 1 due** Discuss Project 2 Web Topics • Browsers • Resolution • Color • Navigation
7	**13**	Tuesday, February 16	Web Topics • Embedding Audio • Embedding Video • Embedding Fonts
	14	Thursday, February 18	Discuss Final Science Project Website Science Topics • C01: Pseudo-science • C02 and C03: Criticisms of science • C04: Science and society

8	**15**	Tuesday, February 23	**Quiz 3** **Project 2 due** Discuss Project 3 Web Topics • CSS for Positioning
	16	Thursday, February 25	Web Topics • CSS for Positioning • Making rollover buttons
9	**17**	Tuesday, March 1	Web Topics • External CSS • CSS for positioning (continued)
	18	Thursday, March 3	Web Topics • Creating charts for your study • Creating PDFs of your survey answers
10	**19**	Tuesday, March 8	**Quiz 4** Class time to work on projects
	20	Thursday, March 10	**Project 3 due** Class time to work on Group Project Work on Group Presentation
11	**21**	Thursday, March 17 11:30 AM - 1:45 PM	***** NOTE SPECIAL CLASS MEETING TIME ***** **Group Project due** **Group Project Presentations**

Please note that throughout the quarter you will be assigned several projects and assignments. You will receive a separate handout detailing each project or assignment. A copy of this syllabus can be found on D2L (http://d2l.depaul.edu)

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted in D2L and sent via email.