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CS 2800: Web Design Fundamentals

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Course Title: Web Design Fundamentals

Course Number: CS 2800

Number:

Credit Hours: 3 semester units

Lab Hours: 0 semester units

Prerequisite(s): CS 1160 or CS 1180 or CEG 2170

Course Description: HTML is the markup language that every web developer uses in order to structure and present content in the Internet. HTML5 is the standard that is being shaped and developed currently. It extends and improves the last HTML4 standard and takes it to the next level with support multimedia, communication and more. In this course, Students learn the fundamentals of Web design and development. Using various web software (Text editors, Expression Web, browsers and ftp clients). We will use CSS and forms, learn to add multimedia to pages, learn to insert JavaScript code into our web pages to increase interactivity, and learn some special effects.

Required Text: *HTML5 and CSS3 Visual Quickstart Guide*, Elizabeth Castro, ISBN-13: 978-0-321-71961-4, Seventh Edition, Person (Peachpit Press) [companion site](#)

Required Materials: Personal Computer with Internet Access

Software:

- aptana, free, download from: <http://www.aptana.com/>
- NotePad++, free, download from: <http://notepad-plus-plus.org/download/v6.2.3.html>, or
- TextPad, free, download from: <http://www.textpad.com/download/>, or
- Expression Web 4, free for students, Get it free from: [DreamSpark Premium \(MSDNAA\)](#)
- If you use NotePad++ or TextPad, you will need FileZilla to upload your work to the server

Instructor:	Mohamed B Ali, <i>Adjunct Instructor</i>
Department:	Computer Science
Course Email:	Please use Pilot Email.
Phone:	(937) 775 - 5131
Office Location:	Russ 4 37
Office Hours:	By appointment only
Teacher Assistant [TA]	Mary Oberer

Program Outcomes:

Introduction to basic web design, development, and information management. Topics include design principles, page layout, hierarchical organization, content management, use of color and graphics, privacy policies, accessibility and site organization. HTML, XHTML and modern web programming tools are included in the course.

Course Objectives:

- Describe the Internet and the World Wide Web.
- Copy and send files using File Transport Protocol (FTP).
- Describe web page usability and design principles.
- Demonstrate understanding of methods of usability, accessibility, and design in web page development.
- Describe the functions of a web page editor.
- Design and implement (X)HTML and CSS web pages that utilizes good design principles.
- Describe the difference between the structural and presentational components of a web page.
- Design and implement web pages using multimedia.

Student Success:

Attending all class times is a critical part of being successful in any college class. Attendance will be taken; for record keeping but it will not be part of your participation grade points. Complete all work assigned and be sure you fully understand what you are reading from text, topics covered in presentations, and hands on lab work done. This course is designed for each student to succeed, but the quality and level of learning is directly related to the effort put forth.

If you find you are having trouble with the requirements of this course, please see me immediately so we can discuss how to help you succeed to your fullest potential. At times it may take longer than intended to complete some components of this course for some students. If you need tutoring or more one on one help then the CS help room center may be a resource available to you. Information can be found at the following web site:

<http://www.cs.wright.edu/cse/currentstudents/help-room-schedule>. Be very careful about using websites as coding references, we follow a very strict coding method and syntax, and many sites typically lead students a stray.

learnerpro server accounts

I have a UNIX web server, called "learnerpro.com", on which I will create web spaces for you to use in this class to save and publish your required for grade work online. You will each be given an account on this server. Log-in information will be passed during your first lab.

Students are responsible for maintaining a backup copy of all course assignments submitted. Servers are not 100% reliable, and server failure can happen and will happen. Keep backups of your WORK.

Syllabus (Tentative Schedule): I reserve the right to make adjustments to this syllabus during the course of the quarter in order to better meet the needs of the students. If changes are warranted I will make them on the schedule below. Please check the syllabus periodically.

Outline:	
Week	Topics
1[1/08 & 1/10]	Chapter 1: Web Page Building Blocks Chapter 2: Working with Web Page Files Chapter 3: Basic HTML Structure
2[1/15 & 1/17]	Chapter 4: Text Chapter 5: Images Chapter 6: Links
3[1/22 & 1/24]	Chapter 7: CSS Building Blocks Chapter 8: Working with Style Sheets
4[1/29 & 1/31]	Chapter 9: Defining Selectors Chapter 10: Formatting Text with Styles
5[2/05 & 2/07]	Chapter 11: Layout with Styles
6[2/12 & 2/14]	Chapter 15: Lists
7[2/19 & 2/21]	Midterm: Given during Lab period (Tuesday, Feb 19) Chapter 18: Tables
8	Spring break:2/25 - 3/01
9[3/05 & 3/07]	Chapter 16: Forms
10[3/12 & 3/1]	Chapter 17: Video, Audio, and Other Multimedia
11[3/19 & 3/21]	Review CSS Chapter 12: Style Sheets for Mobile to Desktop
12[3/26 & 3/28]	Review CSS Chapter 13: Working with Web Fonts
13[4/02 & 4/04]	Review CSS Chapter 14: Enhancements with CSS3
14[4/09 & 4/11]	Chapter 20: Testing & Debugging Web Pages Chapter 19: Working with Scripts
15[4/16 & 4/18]	Chapter 19: Working with Scripts
16[4/23]	Final Exam: Tuesday, April 23 from 8-10am

Your main motivation should be the skills, knowledge, and experience you gain by taking the course, but you will also receive a grade. see below grade distribution:

Grading Policy:	
Assignment	Points
Class Assignments	20%
Lab Assignments	25%
Midterm	15%
Final Exam	20%
Class Project	20%
Total Points	100%

Grading Scale	Points
A	100 - 90
B	89 - 80
C	79 - 70
D	69 - 60
F	59 - 00

Class Policies:

Missed Classes:

The student is responsible for obtaining material distributed on class days when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor and or TA. Missed or late quizzes can not be made up under any circumstances but with good cause and adequate notice, an early quiz may be given.

Assignments:

All assignments are due by their due date and time. Late submission of assignments will be given zero credit. No exceptions are made. Absence from class is not an excuse for not turning in work on time. Assignments are graded by instructor and/or TA for how well student has met criteria and quality of work.

Class and Lab Policies for workstations:

Class and Lab workstations should only be used for class work—Web browsing, e-mail, Facebooking, game play, instant messaging and other non-class related computer activities should be reserved for other computers on campus. Expect the lab computers to be turned off during certain lectures throughout the semester.

Email Guidelines:

All email concerning this class should be through PILOT.

CAUTION: If you do not receive a response from me, assume I did not receive your mail. Make copies of anything you are mailing me for a grade in case there are problems with the mail.

Please note the following:

1. I reply within 24 to 48 hours.
2. When you are writing about a question or technical problem, please provide as much detail as possible (URL, error message, screen capture etc.).

3. Please save non-emergency questions for our class discussion so that you may benefit from other student responses, and they will benefit from the questions you ask.
4. If you reply to a message, please include the text of the original message to help me remember the context of your message.
5. Please check your e-mail frequently. Every day is best.

Email Guidelines:

Students are expected to be attentive during class and not disrupt the learning process. Everyone is encouraged to participate in class discussions as directed by the instructor. Students are also encouraged to ask the instructor questions about the course material. Here is a list of activities that can disrupt the learning process:

- Forgetting to turn your cell phone to silent mode during class, lab or exam time. If a call must be answered, take the call outside of the classroom and student work spaces.
- Habitual tardiness.
- Leaving and re-entering the classroom during class, or exam time.
- Engaging in conversation not relevant to the classroom activities.

Academic Dishonesty:

Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and College disciplinary action per policy. For more information refer to the "Academic Dishonesty" policy in the College Catalog.

Need for Assistance:

If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it, or which will require academic accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through Disability Services should contact (937) 775-5680 or disability_services@wright.edu. please notify me immediately.

Academic Integrity and Student Original Work:

Each student is responsible for maintaining academic integrity and intellectual honesty in his or her academic work. It is the policy of the school that each student be academically honest, which means that each student must:

- Submit his or her own work, not that of another person
- Not falsify data
- Not engage in cheating (giving or receiving help during examinations, acquiring and/or transmitting test questions prior to an in-class examination, or falsifying any records, including admissions material)
- Not receive nor give aid on assigned work that requires independent effort
- Not use term paper writing services or consult such services for the purpose of obtaining assistance in the preparation of materials to be submitted in courses