CSCI 220 – Web Concepts I

Syllabus - V1.2.2

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By appointment.

Course Description

This course will introduce the student to the technical side of Web concepts. In today's fast paced communication-centered world, the World Wide Web is an important source for a plethora of information. Even though there is a wealth of tools for building Web sites, they cannot do it all. You still need to know "what's under the hood" to be an effective Web master.

Web Concepts I concentrates on client-side concepts and will introduce the student to the basic building blocks of Web sites: manual Web site authoring, building dynamic Web pages, how to use objects, programming events and event driven programming, Markup Languages and the Document Object Model.

To reinforce the concepts, the student will learn technologies that are widely used in the Web community today. We will cover such technologies as the Hypertext Markup Language Version 5 (HTML5), Cascading Style Sheets Version 2 and 3 (CSS) and client-side scripting with JavaScript and jQuery.

This is a programming class!

Course Goals & Objectives

At the end of this course, you should be able to:

1. Understand how to manually build a Web site using HTML5 and validate it against the Web standards,
2. Understand how and why Cascading Sheets are applied to Web sites,
3. Understand how to use JavaScript and jQuery to build dynamic Web pages,
4. Understand the Document Object Model and how to apply it.

Prerequisites

Since this class is part of the Web Certification, the prerequisites will be enforced. The prerequisite for this course is: grade of C or better in CSCI 130, 145 or 241; or MIS 221. This course assumes that you have some programming background.

Required Text & Materials

Required Texts. The textbooks for this class are electronic books (PDF) and can be download from D2L. Additionally, if you prefer a physical book, the following information will be useful:

1. Crowther, Hello! HTML5 & CSS3: A user-friendly reference guide (First Edition), Manning Publications Co. , ISBN: 9781935182894.
2. Wright, Learning JavaScript: a hands-on guide to the fundamentals of modern JavaScript , Pearson Education, Inc. , ISBN 9780321832740 .

3. Bibeault/Katz, jQuery in Action (Second Edition), Manning Publications Co. , ISBN 9781935182320.

Required Media: Also, students should have an electronic means of saving course work and class files. This can take on many forms including flash drives, laptops or the campus/department network drives.

Internet Connection. Since this is a Web programming computer class, students are expected to have an Internet connection. We will be using the Internet in a number of different ways. You may use the schools Internet via the laboratory machines or connection from home.

Course Overview

Each class, whether lecture or lab, will begin with a question and answer period. This is where students can ask questions regarding the previous assignment, lecture, lab or any other issues that may have arisen since the previous class meeting.

This course is divided into 2 parts: Lecture and Laboratory.

Lecture. The lecture will expand on and highlight material in the textbook. In addition, this is a self-directed course that requires the student to read the textbook. *It is imperative that the student read the assigned material so that the student will be prepared for lecture*. The lecture may or may not include all the material presented in the chapter(s). However, students are responsible for all material within covered chapter(s) unless informed otherwise.

Laboratory. The purpose of Laboratory is to give you practical experience with the topics discussed in lecture. To prepare for lab each week, read that weeks assigned textbook material and read the lab. You must be prepared for lab by doing the appropriate pre-lab activities or you will not finish the lab in the allocated lab time. If you do not finish, you must complete the lab outside of class. Bring your textbook to every lab session.

You will also need to allocate time outside of your lab session to complete the work. Remember, this is a computer course: you are expected to use microcomputers 6 to 8 hours per week to study, practice and complete the assigned material. You will succeed only with adequate preparation prior to class and lab.

Course Specifics

Attendance & Absences. Attendance to lectures is *mandatory and expected*. If you miss a lecture due to some unforeseen circumstance, it is your responsibility to make up the missed material by talking to one of your classmates.

Communication. All course communication will be accomplished in one of two ways: announcements during lecture or lab and electronic communication.

- Missing a lecture is not an excuse for missing an announcement. See “Attendance & Absences” above.
- *Email* is the best way to communicate with your instructor outside of class. When using email, please include the following marker in the subject line: `CSCI220`. This marker shows that the email is from this class and will help me fight spam. If you do not include the marker, *I may delete the email without looking at it!* Also, I will not reply to general emails regarding the assignments; it is simply too difficult to do this without looking at your work. If you need assistance with your homework, come to my office hours or make an appointment to see me.
- *Desire2Learn* (D2L) is used in this class as a course management tool. All course material can be found at the courses D2L Web site.

Homework Policy. There will be two types of homework: reading assignments and Project activities. Each is described in detail below. In general, reading homework is to be completed *before the next lecture* and project activities are to be completed by the given due date.

Late assignments or project parts will not be accepted. Extensions may be granted in rare cases when extenuating circumstances (like serious illness or disability, a death in the family, an accident, etc.) exist, and are supported by written documentation. There will be no extension of assignment deadlines if computing facilities are down close to the due date unless the downtime exceeds 24 hours.

Examlette's. There will be four to six "Examlette's" throughout the semester. Examlette's are more important than quizzes but are not quite exams. *Examlette's cannot be "made-up"*. If you miss an examlette without prior approval by the instructor, you will receive a grade of 0 (zero). NO EXCEPTIONS!

Lecture

The lecture will expand on and highlight material in the textbook. The lecture may or may not include all the material presented in the chapter(s) and may include additional material not covered in your textbook. However, *students are responsible for all material within covered chapter(s) as well as additional material presented during lecture unless instructed otherwise*.

Reading Assignments. You will be expected to *read the assigned material prior to lecture*. By doing this, you will be prepared for the discussion covered during the lecture. The end of each chapter section may contain "Self-review Exercises". If present, you are expected to complete these exercises. *These will not be handed in*. It is very important to complete these assignments as they demonstrate proficiency with the material discussion in the section.

Computer Science Lab Use

The Computer Science Laboratory (CS lab) in MOLN D116 holds computer workstations from which you can reach your individual lab account. These workstations are connected via a Local Area Network to a server so you can use any of the machines and log in to your own account. These machines use a version of the Linux operating system. If needed, we will cover the basics of Linux during the first laboratory.

You must use your Ranger Card to enter MOLN D116. Contact the Ranger Card Desk (in the Student Center) if you need a Ranger Card.

Your computer account is your private property, and should be treated as such. Keep your password private and make sure to completely log out every time you use your account. It is your responsibility to prevent others from plagiarizing your work.

Laboratory

The purpose of the labs is to give you practical experience with ideas presented in lecture. The exact dates of the labs are "TBA" as we go into the lab once we have completed the proper classroom material. You will be assigned a different lab partner each week.

Preparing for Lab. Each lab will be based on material that is covered in lecture. To prepare for lab:

1. Read the assigned reading material.
2. Attend lectures.
3. Do the assigned written homework as we discuss the associated material in class.
4. Read the pre-lab material (if appropriate) carefully before each lab.

Working through the laboratory exercises. For a given lab, you will work through the lab exercises as described in the instructions. The laboratory exercises contain checkpoints. When you reach a checkpoint, you must call over the lab instructor or the student lab assistant who will check your work and accept answers to questions presented in the lab. They will check you off when the checkpoint material is satisfactory at which point, you move on to next checkpoint. This continues until the all checkpoints have been completed.

Laboratory Grading. Your score on each lab is computed as the number of checkpoints that you and your partner complete out of the total checkpoints in the lab. For example, if there are seven checkpoints and you complete six checkpoints, your score for that lab is computed as 6/7.

Project

We will be working on a comprehensive project designed to demonstrate how a "real", ecommerce-style Web site functions. Each project description has an activity dealing with the material we are discussing in class. You will be given several weeks to complete the portions of the project. Thus, the project is cumulative and will take the entire semester to complete in multiple parts.

Format. Some parts of the project will require a written discussion and/or documentation. If written material is required for an assignment, it must be in digital form. Handwritten submissions are not acceptable. All written

assignments must be submitted as a Microsoft Word compatible document (either `.doc` or `.docx`), an OpenOffice/LibreOffice compatible document (`.odt`) or a Portable Document Format (`.pdf`). All other file formats are not acceptable. Unacceptable file formats include but are not limited to Microsoft Works (`.wps`), Notepad (`.txt`), and Wordpad (`.rtf`). Remember, *it is your responsibility to ensure you turn in the correct assignment as well as it being in the proper format*.

Submission. Each part of the project will have specific submission instructions. You are to follow those instructions explicitly. *Late project parts will not be accepted; a grade of 0 will be given to all late projects.* Extensions that are not subject to penalty may be granted in rare cases when there are extenuating circumstances (such as serious illness or disability, a death in the family, an accident, etc.) and when these circumstances are supported by written documentation. Note that even though you you may have not completed a project part (or turned that part in late), in order to continue with the project, you will still need to complete each part as the project is cumulative.

Assessment. Individual project parts will have their own assessment rubrics. The assessment rubrics will be given to the student as part of the assignment. Please read and understand these rubrics as they describe the expectations for project parts as well as describe exactly how the project parts will be graded.

Academic Performance

Accomplishment Levels. Your level of accomplishment will be recognized at the end of the course with a letter grade. Individual accomplishment is measured against course standards and not against the performance of other students.

Letter Grades. At the end of the course, letter grades (including plus/minus) will be assigned based upon you cumulative score percentages as follows:

Letter Grade	+	Grade	-
A		93.3% - above	90.0 – 93.2%
B	86.6 – 89.9%	83.3 – 86.5%	80.0 – 83.2%
C	76.6 – 79.9%	73.3 – 76.5%	70.0 – 73.2%
D	66.6 – 69.9%	63.3 – 66.5%	60.0 – 63.2%
F		Below 60%	

Weighting Distribution. The following weighting distribution will be used to compute your final grade:

Project	40%
Laboratory	20%
Examlette's	40%

Point Scores. Your final grade will be determined as a weighted average of your averages for assignments and exams. The weighting distribution is described in “Weighting Distribution” above. Each of the averages that are used for the weighted average is calculated as: number of points earned / total number of points x 100.

For example, if you earn 65 points out of a total of 80 points that it is possible for you to earn on laboratories, your laboratory average would be: 65/80 x 100 = 81.25. That final percentage is then weighted to produce a final, weighted percentage.

Extra Credit. No *special arrangements* will be made for extra credit for improving grades: there are ample opportunities for you to perform well with the assigned activities. However, there may be opportunities during the semester where I will give extra credit for attending special events.

General

Grading questions. If you have a question about a grade, you should see me within one week of the day the graded work is returned to you (via D2L). *You lose the right to re-grading after that*.

Incompletes. Incompletes (a grade of “I”) *are rarely granted*. The University has strict policies regarding grades of incomplete. These policies will be enforced. Incompletes are not to be used as a shelter from potentially low grades.

Computer Facilities. This class is scheduled to use the Computer Science lab located in *MOLN D116* for labs. The computers located throughout campus (*MOLN 115, MOLN 117, 118, 124 and WYLL D 150*) may be used to complete projects or practice but are not appropriate for lab use.

Other Available Computers. If you have access to other computers outside of the UW-Parkside campus and the computers have the appropriate software installed, you are encourage to use these systems for homework, assignments, study and practice. In order to do this, your computer must have the following software: a text editor (like Windows "Notepad") and a Web browser (like Microsoft's "Internet Explorer" or Apple's "Safari").

Academic Misconduct and Cheating. In this course, you are encouraged to study and prepare for lecture and labs with other students. However, when taking examinations or working on individual assignments or projects, you are to work alone. I will tell you if you are to work as a team. *University regulations are very explicit concerning academic misconduct and cheating*. These regulations will be fully enforced. UWS 14.03 defines what academic misconduct is and what the penalties can be for academic misconduct. Please see "University of Wisconsin-Parkside Misconduct Policy, Policy #28", for details. The class policy on cheating is simple: if your work is turned in by another student, or if you turn in the work of another person or persons, all students involved will receive a zero on that assignment. Should you cheat again, I will fail you for the entire class. I take academic dishonesty very seriously and I expect you to take it just as seriously. If you have any doubts, please talk to me before you do anything you might regret.

Inappropriate material in Web pages. Some material is strictly off limits for Web page content. Examples of inappropriate material include, but are not limited to:

- All sexually oriented material including but not limited to language, pictures, video, etc.
- Profanity or explicit language.
- Violent, sadistic or cruel language, pictures, video, etc.

Again, this should be fairly obvious! If you use what your instructor deems to be inappropriate, you will have points removed from your final assignment score and be asked to remove the material. Again, if you have any doubts, please talk to me before you do anything you might regret.

Students with a Disability. Anyone who has special needs that must be accommodated to fulfill the course requirements should notify the *instructor and Renee Kirby* in the Office of the Educational and Career Development (WLLC D175, 595-2610). The University has many resources available to assist students with their academic studies.

Accommodation of Religious Observances. UW Parkside Senate policy requires that this institution make reasonable accommodations for a student's religious beliefs. *Please notify your instructor within the first two weeks* of class about any scheduled class date(s) that conflict with a religious observance.

Food and Drink in Class. Unfortunately, beverages and food are not allowed in MOLN 115.

Cellular Telephones and Pagers in Class. I find it very distracting, and quite frankly rude (as I'm sure other students do), when a ring tone goes off during class. As a courtesy to the instructor and other students, please either turn your cellular telephone or pager off or disable the ring tone during lecture and lab. If you must use the phone, please leave the classroom or lab and go to a place that will not disturb other students: use you cellular phone courteously.

Illnesses. If you are sick, please stay home. You are able to get all of your course materials on-line and you are able to turn in assignments on-line. So, if you are sick, there is no reason to be at school increasing others chances of getting sick. However, see ***Attendance & Absences*** **and** ***Examinations*** **above.**

Weapons. Weapons are prohibited in UW-Parkside buildings and all outdoor events. Anyone found in violation will be subject to immediate removal in addition to academic and/or legal sanctions. If you have a concern regarding weapons at this university, please contact the University Police (595-2455).

The instructor reserves the right to modify this syllabus at any time, as deemed necessary