ISS424: Internet Applications Development

Spring 2015

Syllabus

Class Time and Location

Tues., Thurs.: 7:30– 9:10am, Rohr Science 13

Instructor Information

Instructor	Dr. McKinstry, Professor of Computer Science	
Email	jeffmckinstry@pointloma.edu	
Office Hours	Monday:	8:30-9:20 a.m., 11:00-11:50, and 2:45-3:50 p.m.
	Wednesday:	8:30-9:20 a.m., 11:00-11:50, and 2:45-3:50 p.m.
	Friday:	8:30-9:20 a.m., 11:00-11:50, and 2:45-3:50 p.m.

Class Materials

Textbook

Programming the World Wide Web (7th edition)
Sebesta, Robert
Addison-Wesley, 2013.

Required

GoDaddy Web hosting account (fee-based, about $10.00/month for 4 months for a '.net' domain name)
If you already have a web-hosting service, you may use it. But if there are things that can't be done on your service, like installing custom web servers, MYSQL, and php support, then you will have to switch over.

Course Description

Students are introduced to the tools and skills used in building and maintaining web sites on the Internet. An overview of how the Internet works is given as well as exercises with many of the most widely used Internet technologies for client- and server-side programming. Topics and exercises include JavaScript™, Java™ servlets, Ajax, JSP™, XHTML, XML, PHP, and access to a database through a web interface. A class project integrates the topics as the students build their own website.

Prerequisite: Computer Science 254 and Computer Science 314.

Class Learning Outcomes

- Students will be able to write correct and robust software.
- Students will be able to apply their technical knowledge to solve problems.
- Students will understand the interaction between hardware and software.
- Students will have an understanding of the historical development, contemporary progress and societal role of computer information systems.

Course Philosophy

The skills are learned primarily by doing exercises, not simply watching examples done by others. Effective learning is an active process of being exposed to new concepts and exercising the implementation of the concepts.

Individual concepts are **learned** (mastered as opposed to memorized) by thinking and working through numerous examples and exercises which involve these concepts; by this process the concepts become familiar and less abstract.

The instructor is responsible for overall planning, for directing instructional activities, and for evaluation of student achievement.

You are ultimately responsible for your own achievement. For example, you are responsible for meeting all scheduled activities of the course, such as class meetings, problem assignments, lab assignments, quizzes, and midterm and final presentations of your class project. You are also responsible for regular work outside of class in preparation for class lectures and discussions.

Grading Policies

Grading Distribution

Item	Points
Quizzes	20%
Exercises	20%
Mid-Term Project Presentation	25%
Final Project Presentation	35%
Total	100%

Grading scale.

	A	B	C	D
+		(87.5, 90)	(77.5, 80)	(67.5, 70)
	[92.5, 100]	[82.5, 87.5)	[72.5, 77.5)	[62.5, 67.5)
-	[90, 92.5)	[80, 82.5)	[70, 72.5)	[60, 62.5)

Grade components. The grade components are quizzes, homework exercises, a semester website project that integrates the homework exercises, and project presentations at the midpoint and endpoints of the semester.

- **Late work**. A written assignment or computer assignment is late if it is not received by class time on the due date. Late work is accepted up to 1 week from the due date, and is penalized 30%.
- **Accuracy of solutions**. Quiz questions and assigned exercises must be formulated carefully in terms of words and notations used in the course. Credit is determined by the degree to which answers and solutions respond to the specific question or problem stated. Maximize your credit by learning the language and notation of the course.
- **Electronic Assignments**. Assignments sent in as attachments must be prepared in a style suitable for grading. The following guidelines are used to determine credit:
  - The organization must be easy to follow
  - The formatting must enhance the organization
  - Complete solutions must be written for problems (not just answers); answers must be clearly indicated
  - Use complete sentences to answer questions

- **Coding Guidelines.** Coding should conform to the guidelines as exemplified in the textbook and by the instructor. The following guidelines are also important
    - Use self-descriptive file-names
    - Use self-descriptive variable names
    - Make appropriate use of comments in the coding to help organize the coding and help explain logic or flow. If you were to use your coding as an example to someone you were teaching or tutoring, the coding with comments should help the novice understand your work clearly.
    - Use spacing appropriately so that the coding is easy to read. Jumbled coding without proper spacing within a line or spacing between lines will negatively affect your grade.
- **Semester Project**. Each student will be working on a project throughout the semester. The project will involve the creation of a personal website where the skills being taught are incrementally implemented into the website development.
    - 50% of the grade will be based on the student's ability to implement the skills in a technically accurate and appropriate manner.
    - 50% of the grade will be based on a student's ability to make the site visually appealing and easy for a user to navigate and use
        - Avoid the need for scrolling vertically and horizontally
        - Reduce the number of clicks as much as possible
        - Use text and background color schemes that are easy on the eye and not distracting
- **Mid-Term and Final Presentations**. At the middle and end of the semester, each student will present her project to the class, providing a visual presentation of the website development and providing a technical explanation of her work. No presentation shall be missed without prior consent or a well documented emergency beyond your control. A score of zero will be assigned for a presentation that is missed without prior consent or a well documented emergency beyond your control. Students will sign-up for a presentation time-slot and this schedule will be made public to the class.

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Attendance Policy

Attendance is expected at each class section. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes in which a student is registered is considered essential to optimum academic achievement. Therefore, regular attendance and participation in each course are minimal requirements to be met. There are no allowed or excused absences except when absences are necessitated by certain university-sponsored activities and are approved in writing by the Provost. Whenever the number of accumulated absences in a class, for any cause, exceeds ten percent of the total number of class meetings, the faculty member has the option of filing a written report to the Vice Provost for Academic Administration which may result in de-enrollment, pending any resolution of the excessive absences between the faculty member and the student. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF (no grade). There are no refunds for courses where a de-enrollment was processed (see catalog for full text).

Class Enrollment

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of "**F**" on the official transcript.

Academic Accommodations

While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the Disability Resource Center (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student's instructors and provide written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. This policy assists the University in its commitment to full compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities (ADA) Act of 1990, and ADA Amendments Act of 2008, all of which prohibit discrimination against students with disabilities and guarantees all qualified students equal access to and benefits of PLNU programs and activities.

Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.

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Academic Honesty

The Point Loma Nazarene University community holds the highest standards of honesty and integrity in all aspects of university life. Academic honesty and integrity are strong values among faculty and students alike. Any violation of the university's commitment is a serious affront to the very nature of Point Loma's mission and purpose.

Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. Such acts include plagiarism, copying of class assignments, and copying or other fraudulent behavior on examinations. For more details on PLNU's policy go to:
http://www.pointloma.edu/experience/academics/catalogs/undergraduate-catalog/point-loma-education/academic-policies

A student who is caught cheating on any item of work will receive a zero on that item and may receive an "**F**" for the semester. See the PLNU Catalog for a further explanation of the PLNU procedures for academic dishonesty.

Any two or more students caught providing or submitting transmitted (shared) creative work (program code) will receive a zero for that assignment.

Final Exam: Date and Time

The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. Only in the case that a student is required to take three exams during the same day of finals week is an instructor authorized to change the exam date and time for that particular student.

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We will be meeting on ***Tuesdays*** and ***Thursdays.*** Most days will be comprised of a quiz, lecture, and in-class lab exercises. The quizzes will cover material covered in the previous class meeting. You are expected to have reviewed the material from your textbook before coming to class. Your prior review should allow you to maximize the time spent in class.

Exercise assignments, semester project, and presentation details are provided in separately provided documents. **This schedule is subject to change.**

Day	Date	Focus	Quiz	Exercises Due
R	1/15	Chap 1: Fundamentals		
T	1/20	Chap 2: Intro to XHTML	✪	
R	1/22	Chap 2: Intro to XHTML	✪	✪
T	1/27	Chap 3: Cascading Style Sheets	✪	✪
R	1/29	Chap 3: Cascading Style Sheets	✪	✪
T	2/3	Chap 4: Basics of JavaScript	✪	✪
R	2/5	Chap 4: Basics of JavaScript	✪	✪
T	2/10	Chap 5: JavaScript and XHTML Documents	✪	✪
R	2/12	Chap 5: JavaScript and XHTML Documents	✪	✪
T	2/17	Chap 7: Intro to XML Assignment		✪
R	2/19	Chap 7: Intro to XML Assignment		✪
T	2/24	Chap 6: Dynamic Documents with JavaScript	✪	
R	2/26	Chap 6: Dynamic Documents with JavaScript		
T	3/3	Mid-term Individual Presentations	✪	✪
R	3/5	Mid-term Individual Presentations		
T	3/5	Spring Break		
R	3/7	Spring Break		
T	3/17	Chap 8: Introduction to Flash		
R	3/19	Chap 8: Introduction to Flash		✪
T	3/24	Chap 9: Intro to PHP	✪	✪
R	3/26	Chap 9: Intro to PHP	✪	
T	3/31	**In-Class Project Work**	✪	✪
R	4/2	Easter Recess		
T	4/7	Chap 10: Intro to Ajax		
R	4/9	Chap 10: Intro to Ajax	✪	✪
T	4/14	Chap 13: Dbase Access thru the Web	✪	
R	4/16	Chap 13: Dbase Access thru the Web	✪	
T	4/21	Chap 11: Java Web Software	✪	✪
R	4/23	Chap 11: Java Web Software		
T	4/28	Final Individual Presentations	✪	✪
R	4/30	Final Individual Presentations		