McMaster University	Department of Computing and Software

COMP SCI 4WW3/6WW3
Course Outline

1- Course Information

Term	Winter 2015-2016	Starting Tue 05 Jan 2016
Course Name	Web Systems and Web Computing	
Course Description	World wide web as networks: protocols, clients/servers and social issues; programming systems: markups, scripts, styles; platform technologies; WWW services: standard systems, browser-based, security issues, examples.	
Prerequisites	- COMP SCI 3MH3 or 3SH3 (Operating Systems). - Completion of COMP SCI 3C03 or 3CN3 (Computer Networks and Security) is recommended.	
Antirequisites	None	

2- Instructor

Name	Hussam Fetyan
Office	ITB 206
Email	fetyanh@mcmaster.ca
Website	http://www.cas.mcmaster.ca/~fetyanh
Office Hours	Fridays 4:30-5:30

3- Teaching Assistant

Name	Zhaofei Tian
Office	ITB 207
Email	tianz3@mcmaster.ca
Office Hours	To be determined

4- Textbook

Title	Programming the World Wide Web (8th edition)
Author	Robert W. Sebesta
Publisher	Pearson

5- Course Specifics

Method of Delivery	Three hours per week of in-class meeting. Classes take the form of lecturing, tutorials, and group work & discussion.		
Classes	**Time**	**Location**	
	Wed 2:30PM-4:20PM	T13-106	
	Fri 3:30PM-4:20PM	T13-106	
Evaluation		Undergraduate (4WW3)	Graduate (6WW3)
	Class participation	10%	10%
	Assignments	30%	24%
	Midterm	25%	20%
	Final	35%	28%
	Project	--	18%
Course Project	Graduate students are expected to complete a course project. Students will choose a topic and provide a simple work plan to get approval from the instructor. Students then will research the approved topic and give a presentation to the class at the end of the term. Additionally, students are required to submit a detailed report that describes the problem, existing techniques, your approach and ideas, and a critical analysis justifying your solution. Projects will be graded on both, the class presentation and the written report.		
Course Coverage (Tentative Plan)	**Topic**	**Chapter**	
	Fundamentals	Chapter 01	
	HTML/XHTML	Chapter 02	
	Cascading Style Sheets CSS	Chapter 03	
	JavaScript/The DOM/Dynamic Documents	Chapters 04, 05, 06	
	jQuery/JSON	-	
	XML	Chapter 07	
	PHP	Chapter 09	
	Databases & MySQL	Chapter 13	
	Ajax	Chapter 10	
	Java Servlets/JavaServer Faces	Ch 11	
	Cookies, Web Services, and Web Security	-	

Content Management	- The course will be administered through the content management system *Avenue to Learn*. This includes delivery of lecture notes, assignments, announcements, grades, and any other course related contents. - It is the **student's responsibility** to be aware of the information on the course's Avenue to Learn page and to check regularly for announcements. - Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure.
Learning Outcomes	The intended learning outcomes describe what the student is expected to know and be able to do after completing the course. Upon successful completion of this course: 1- Students should know and understand • The importance of web systems and web computing in modern life. • The relationship between the internet and the world wide web in addition to protocols used in web systems. • Web programming concepts. • Web design principles. • Modern programming languages and tools used in web development. • Entity Relational Database Management concepts. • Security issues related to web systems. 2- Students should be able to • Analyze and critique existing web systems. • Design web sites based on given specifications. • Construct front-end web pages using HTML and CSS. • Use JavaScript to manipulate the DOM and add dynamic contents to static web pages. • Design and develop optimal relational data bases. • Construct full-stack functional web sites by using server-side PHP scripting language and MySQL relational DBMS.
6- Course Policy Statements	
Group Study & Collaboration	- You are allowed and encouraged to discuss the material with other students in the class. However, any work you submit should be your own work and based majorly on your own understanding. - If you get an idea from a fellow student and use it in your work, you have to give him/her credit. If you use a piece of code from an external resource, you have to provide citation. - Submitted work that is based entirely or majorly on work done by others will be investigated and could be rejected and assigned a grade of zero even if you provide citation.

Submission of Assignments	- You have to follow the submission instructions provided with each assignment. - Late submission of assignments may be penalized by 20% per calendar day.
Exam Type	Midterm and final exam are closed book. Students are not allowed to use any aids including notes, books, laptops, or cellphones during the test.
Missed Work	Students who miss any type of work must use the self-reporting tool to submit an MSAF or provide an authenticated medical report and tell the instructor about the type of missed work. Otherwise, a mark of zero will be assigned to the missed work. Note that Students who miss the final exam must visit the Associate Dean's Office (Faculty Office) in order to apply for a differed exam.
Re-evaluation	- If you believe that your work didn't get the appropriate grade, you can ask for re-evaluation. You have to contact your TA first unless your work was evaluated directly by the instructor. - Midterm papers can only be re-evaluated if written in pen. - Any request for re-evaluation should be made within one week (seven days) of receiving the grade.
Grade Adjustment	The instructor reserves the right to adjust the marks for assignments, quizzes, midterm test, or final exam by increasing or decreasing scores by a fixed number of points.
Communication	- Email communication should be through McMaster email system. - Emails sent through Avenue email system will not be looked at.
7- Miscellaneous Notes	
Work Load	- Significant amount of study is required outside the class. - Students are encouraged to read the text and search for online tutorials, documentation, and additional information. Reading lecture notes is definitely not enough to learn the material as there is no way to compress a 700-page textbook into a limited number of slides that can provide the same amount of detail and thorough explanation. - Students are encouraged to always try out and experiment the tools and the concepts introduced in class. Chances are very low that a student will develop the expected set of skills by only attending and/or reading.
Class Participation	Student's participation in the class will be measured by using electronic technology based on i>clickers and REEF system, in-class quizzes submitted on papers, or a mix of both approaches.
Course Improvement	Suggestions on how to improve the course and the Instructor's teaching methods are always welcome.

8- McMaster Policy Statements	
Course Modifications	The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the students to check their McMaster e-mail and Avenue to Learn regularly during the term to note any changes.
Academic Dishonesty	Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behavior can result in serious consequences. It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at http://www.mcmaster.ca/policy/Students-AcademicStudies/AcademicIntegrity.pdf
Discrimination	The Faculty of Engineering is concerned with ensuring an environment that is free of all adverse discrimination. If there is a problem, that cannot be resolved by discussion among the persons concerned, individuals are reminded that they should contact their Department Chair and the Human Rights and Equity Services (HRES) office as soon as possible.
Academic Accommodation	Students who require academic accommodation must contact Student Accessibility Services (SAS) to make arrangements with a Program Coordinator. Students are also required to inform the instructor. For further information about Student Accessibility Services, visit (SAS) website at http://sas.mcmaster.ca/