Marshall University Syllabus

Course Title/Number	Web & Mobile Application Development/ CS 482/582
Semester/Year	Spring /2017
Days/Time	TR 11:00 - 12:15PM
Location	Weisberg Applied Engineering Complex Room 1201/1203
Instructor	Sameer Shaik
Office	WAEC 3101B
E-Mail	shaiks@marshall.edu
Office Hours	TR 2:30 - 3:30 PM or by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/ academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/ policies/. Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/ Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description

This course introduces the concepts, practices, and technologies to design, develop, and manage cross-platform web sites and applications running on modern mobile devices. This course covers application development of a mobile app, starting from a web site development using HTML5, CSS, Web Design Practices, JavaScript, jQuery, jQuery Mobile and PhoneGap to turn the web site into a fully functioning mobile app. Through this course, students will also gain real-world project experience working with community partner.

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

Course Student Learning Outcomes

Upon successful completion of the course, students will be able to

- OC1: design user friendly websites (c, d, g)
- OC2: implement client based application using CSS and HTML and demonstrate good designs practices (b, c, d, g)
- OC3: implement various interactive elements using JavaScript/jQuery on mobile device (d, g, k)

Course Student Learning Outcomes	How Practiced in this Course	How Assessed in this Course
OC1	Lectures & Labs	Exam, Homework & Group Project
OC2	Lectures & Labs	Exam, Homework & Group Project
OC3	Lectures & Labs	Exam & Group Project

http://www.abet.org/wp-content/uploads/2015/04/cac-criteria-2013-2014.pdf

Required Texts, Additional Reading, and Other Materials

- Felke-Morris, *Web Development & Design Foundations with HTML5*, 7/E, ISBN: 0133571785
- Jon Duckett, *JavaScript & jQuery,* 2014, ISBN 978-1-118-53164-8
  These books are also available in E-Text.

Course Schedule

Week	Dates	Topics	Assignments	Projects Milestone Due
1	Jan 17, Jan 19	HTML Basics	Lab 1	
2	Jan 24, Jan 26	Configuring CSS & Graphic Elements	Lab 2, HW1	
3	Jan 31, Feb 02	Web Design & Page Layout	Lab 3, HW2	
4	Feb 07, Feb 09	Project Discussion		Meet the Community Partners
5	Feb 14, Feb 16	Links, Layout & Mobile	Lab 4	Website Research
6	Feb 21, Feb 23	Tables & Forms	Lab 5, HW3	
7	Feb 28, Mar 2	Exam 1		
8	Mar 7, Mar 9	The ABC of Programming & JavaScript Basics	Lab 6	Project Proposal
9	Mar 14, Mar 16	Functions, Methods, Objects & Loops	Lab 7	Site Flowchart
10	Mar 21, Mar 23	Document Object Model	Lab 8	Project Update 1
11	Mar 28, Mar 30	Spring Break	HW4	
12	Apr 4, Apr 6	Exam 2, Understanding jQuery	HW5	
13	Apr11, Apr 13	Mobile jQuery, Responsive Mobile Web Design	Lab 9	*Project Update 2
14	Apr 18, Apr 20	PhoneGap	Lab 10	
15	Apr 25, Apr 27	Service Learning Project Final Presentation		Project Delivery

* indicates that students should make arrangements to meet their community partners during the specified week to get their project progress reviewed

Note: Schedule can be changed based on discussion between instructor and students

Grading Policy	
Activity	**Points**
Lab Assignments	50
Homework	10
Exam-1	10
Exam-2	10
Group Project	20
Total	100

Scale	
Score	**Grade**
90 & Above	A
80 - 89	B
70 - 79	C
60 - 69	D
59 & Below	F

Attendance Policy, Participation, and Decorum

Students are expected to attend and participate in every class. After three unexcused absences, your grade will be decreased by one letter grade. Students who are absent more than 7 classes will get "F". Coming late to class or leaving the class early without permission is considered absent. Students are also expected to maintain a certain level of decorum that includes turning off (or silencing) cell phones, arriving to class on time, not sleeping during class, and keeping side conversations to a minimum.

Lab Assignments

Lab assignment is the most important part of your study and grade. There will be 10 lab assignments and each assignment takes 5 points in your final grade. You are expected to review and practice the sections of the textbook before the class following the class schedule. Each lab assignment description will be displayed before the start of the one-hour lab session and students should complete the lab assignment before the end of the class and upload them to MUOnline. It is student's job to learn how to use MUOnline and only the assignment properly uploaded to MUOnline will be graded. No late submission is allowed (no email submission will be taken) and no make-up even though you have medical excuse.

Homework

There will be a series of homework to help you understand the concepts presented in the text and the lecture slides. Only the assignment properly uploaded to MUOnline will be graded. No late submission is allowed (no email submission will be taken) and no make-ups.

Exams

There will be two exams. Closed or Open book in-class test.

Exam Attendance Policy

Students are required to take exams at the scheduled class period. Students may take an exam at a different time under one of the following conditions:

- They present a University Excused Absence
- They present a valid medical excuse
- Other extraordinary circumstance as determined by the instructor

Academic Conduct

You are allowed and encouraged to work with other students on the completion of these assignments, subject to the following constraints:

- copying someone else's work and submitting it as your own is plagiarism and will not be tolerated
- you may work with others to develop a solution to a problem but the material you submit must be your own work and you must acknowledge your collaborators
- unless designated as a team exercise, you may not sub-divide the tasks of an assignment; each student is expected to complete the whole assignment

It is your responsibility to satisfy the spirit of this conduct. If you have any questions, please ask the instructor for clarification. Depending on the severity of the offense, the instructor may:

- Take no action
- Penalize the student on the assignment in question
- Assign the student a failing grade in the course

Web Site Project (Service Learning Component):

All students registered for the course will be required to work on a project for designing and developing a web site for a community partner (local non-profit organization). There will be (team) projects that will be

presented to you in advance. A decision regarding the projects should be determined and announced by a certain date. Students are expected to write a final report on their project and present their work in class in the last 2 weeks of classes, unless otherwise announced. However, different stages of the project are due at intervals as we will have a schedule that will be available to you by the end of the first month of classes (i.e., topic approval, site flowchart, update 1, update 2, present the project, deliver the project, etc.,)
The project will:

- Incorporate experiential learning based on community service
- Encourage students to reflect upon their service experiences
- Encourage mutual feedback and evaluation between teacher and students
- Provide students with the opportunity to examine and reassess their personal value systems

Student responsibilities are: Working in teams, provide updates on the Web site and discuss issues appeared at any point, meet the customer when scheduled, respect and be open to learn about the organization, complete the Web site design and development by the end of semester, spend at least 5 hours per week with the team in addition to the regular class time, keep a Project Book documenting the team project (includes milestones deliverables, weekly team meeting logs, team assignments/group work, individual and team project notes and reflection, etc.,). More details regarding the projects and deliverables will be provided after the course work has started.