

Create Web Sites for Mobile Devices

Class Meeting Information

June 27, 2011 – August 7, 2011

Instructor Information

Name: Kevin Hanegan

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Kevin Hanegan is the author of 4 programming books: *Building State-of-the-Art Web Pages*, *Custom CGI Scripting with Perl*, *Practical Guide to Curl*, and *Building Solutions with the DecisionSite Analytics Platform*. He has worked for a variety of software companies, universities, and corporate training centers as a course developer, trainer and consultant. He currently is the Director of Educational Services for TIBCO Software.

Prerequisites

I&CSCI X471.03 Web Development with HTML and I&CSCI X471.04 JavaScript Programming.

Course Description

This course looks at designing and developing web sites specifically for mobile devices. As the number of smart phones and other mobile devices rapidly grow, web designers need to make sure their sites are usable and even optimized to be viewed on them. The topics range from design considerations to specific development steps.

Course Objectives

After completing this course you will be able to

- Determine whether a website needs to be optimized for display on mobile devices
- Understand the different design considerations for a mobile device
- Understand how to determine when a web site is being viewed from a mobile device
- Learn how to style your website specific to mobile devices
- Learn how to update your website's structure when being viewed from a mobile device

Course Text or Online Resources

No Textbook just online notes and video lectures

Course Outline

Introduction	Orientation
Topics	Introductions
Assignments	No Assignment this week
Session 1	Introduction to Websites for Mobile Devices
Topics	<ul style="list-style-type: none"> • Mobile Browsing Experience • Mobile Architecture • Setup your Mobile Web Environment
Assignments	Exercise 1: Answer 3 discussion questions
Session 2	Principles of Mobile Website Design
Topics	<ul style="list-style-type: none"> • Tables or CSS • Image formats • Sizing
Assignments	Exercise 1: Provide updates to a website to support mobile devices
Session 3	Mobile Web Development
Topics	<ul style="list-style-type: none"> • JavaScript for Mobile Devices • Browser Sniffing • AJAX
Assignments	Exercise 1: Create code to determine if viewing device is mobile
Session 4	Optimizing Mobile Websites
Topics	<ul style="list-style-type: none"> • Best Practices • Testing • Deploying • CSS
Assignments	Exercise 1: Display video in mobile device Exercise 2: Adding a Mobile Stylesheet
Session 5	SEO and Marketing
Topics	
Assignments	Exercise 1: Answer 3 discussion questions

Evaluation and Grading

In this course, you will be evaluated in the following way:

Individual Assignments (18 points each)	90%
Participation in class discussions	10%
Total	100%

Unexcused late assignments are penalized 50% off. Assignments are spaced one week apart and are due on Sunday midnight PST. I realize things come up and people have other things to do, so if you are going to be late with an assignment, please email me before hand otherwise it will be considered unexcused.

Grading Scale

- A = 90% – 100%
- B = 80% – 89%
- C = 70% – 79%
- D = 60% – 69%