COURSE DESCRIPTION:

Prerequisites: WEB 110 – INTERNET/WEB FUNDAMENTALS  
Corequisites: None  
This course introduces students to web design for mobile devices. Topics include planning an effective mobile website, industry standard Mobile Markup Language, CSS3, multimedia, m-commerce, social media, testing and publishing. Upon completion, students should be able to plan, develop, test, and publish web content designed for mobile devices. Course Hours Per Week: Class, 2; Lab, 2. Semester Hours Credit, 3.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

a. Justify the need for and purpose of having a mobile presence.
b. Describe the different layouts and constraints to consider while designing mobile sites.
c. Comply with copyrights and licenses related to using commercial sources in mobile sites.
d. Implement the newest technologies in mobile design to build responsive mobile sites.
e. Identify and implement appropriate testing strategies for mobile sites.

OUTLINE OF INSTRUCTION:

I. Beginning Jquery Mobile.  
   A. Getting to Know Jquery Mobile. 
   B. Working with HTML, CSS, and JavaScript. 
   C. Using the Jquery Framework. 
   D. Introduction to the Jquery Mobile Framework. 
   E. Building Your First Mobile Site.

II. Creating the User Interface.  
   A. Knowing the Capabilities of Mobile Devices. 
   B. Learning About Page Layout. 
   C. Tuning the Toolbars. 
   D. Designing Buttons. 
   E. Formulating Your Forms. 
   F. Learning About Lists. 
   G. Handling Events. 
   H. Changing the Default Theme.
III. Customizing Your Content.
   A. Sprucing Up your Design.
   B. Responsive Site Layout.
   C. Rolling Your Own Theme with ThemeRoller.
   D. Detecting Mobile Devices.

IV. Extending the Mobile Experience.
   A. Embedding Video Playback for Mobile.
   B. Encoding Your Own Video for Mobile.
   C. Creating QR and Tag Codes.
   D. Learning to Minify Everything.
   E. Using Mobile Device Emulators.
   F. Building an App with PhoneGap and Jquery Mobile.
   G. Including Jquery Mobile with Wordpress.

REQUIRED TEXTBOOKS AND MATERIALS:

Text to be assigned by the instructor each semester.

STATEMENT OF STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1209.