Course Prefix and Number: ITD 120  
Credits: 3

Course Title: Design Concepts for Mobile Applications

Course Description:
Provides skills for designing both web-based and stand-alone applications for wireless devices. Details discussion of the needs for applications, including mobile phones and a range of rich handheld devices, such as PDAs. Emphasizes the importance of usability, accessibility, optimization, and performance to create fast-loading business enterprise applications and games. Prerequisites: ITE 115 and ITD 110. Lecture 3 hours per week.

General Course Purpose: Serves as an elective for students who want to continue to learn about developing mobile applications in the following Information Systems Technology AAS specializations: Computer Programmer, Microcomputer Applications, and Internet Applications Development

Course Prerequisites and Co-requisites:  
Prerequisites: ITE 115 and ITD 110

Course Objectives:  
Upon completing the course, the student will be able to:  
1. Understand the mobile web.  
2. Use responsive web design.  
3. Design and use mobile web development guidelines.  
4. Set up a development environment.  
5. Create mobile-optimized pages.  
6. Understand mobile browser capabilities.  
7. Understand and use jQuery to build mobile pages.

Major Topics to Be Included:  
1. Responsive web design  
2. Mobile web development guidelines  
3. Development environment  
4. Mobile-optimized pages  
5. Mobile browsers capabilities  
6. jQuery mobile

Effective Date of Course Content Summary: August 15, 2013