

**J. Sargeant Reynolds Community College
Course Content Summary**

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 hand-held 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