Minnesota State University Moorhead

CSIS 365: Mobile Application Development & Programming

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
This course requires any of these three prerequisites
CSIS 255 - Data Structures
CSIS 335 - Graphical User Interface Programming
CSIS 336 - C#.Net Programming

Corequisites: None

MnTC Goals: None

This course provides an introduction to the design and implementation of applications for mobile devices. It addresses creating and deploying applications. Topics include architecture overview, the application life cycle, mobile APIs, mobile development tools, design of the user interface, and integrating apps with a database.

B. COURSE EFFECTIVE DATES: 09/01/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Explain the key principles underlying the design of mobile applications.
2. Describe the life cycles of activities, applications, and fragments.
3. Use mobile development tools effectively.
4. Use a programming language to build mobile applications.
5. Use the major components of the API set to develop mobile applications.
6. Apply best practices for the development of user interfaces for mobile applications.
7. Create UI-rich applications using the major UI components.
8. Save and manipulate data using Content Providers, Shared Preferences and Notifications Package and prepare their apps for distribution.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted