

# Spokane Community College

## COURSE LEARNING OUTCOMES (CLO) AND OUTLINE

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**Course Title: Mobile Development I**

**Prefix and Course Number: CIS 217**

**Version Date: 1/24/2022**

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### **Course Learning Outcomes**

By the end of this course, a student should be able to:

1. Use proper language coding techniques in Kotlin
2. Build smartphone/tablet applications that utilize the native interface
3. Test applications using virtual devices as well as physical smartphone/tablet devices.

### **Course Outline:**

- I. Introduction to Native Mobile Application
  - A. Installing Mobile Development tools and SDKs
  - B. Creating an initial Mobile Application
- II. Responsive Application Design
  - A. Developing screen size agnostic applications for both portrait and landscape modes
  - B. Using native user controls and screen elements
  - C. Aligning and Positioning elements dynamically based on screen sizes
  - D. Modifying and interacting with elements dynamically
- III. Creating Multi-Activity applications
  - A. Passing data between activities
  - B. Navigation between various activities
- IV. Creating Create/Read/Update/Delete Applications
  - A. Saving data in simple text files
  - B. Adding lists of data to native scrolling controls
- V. Integration of application to other native Android OS services