CSC 191 – Midterm Exam Study Guide

Progress towards course outcomes as of early October:

• Choose between and employ suitable programming language features relevant to the development of event-driven software
• Demonstrate competence with available tools for Android platform development
• Demonstrate competence with the Java programming language beyond the CSC 111 level
• Describe the purpose of and employ simple software process artifacts

Covered topics as of early October:

• Use of Eclipse and the Android hardware emulator
• Application lifecycle
• User interfaces
• Listeners
• Inter-application communication
• Location and map functionality

Suggestions for studying:

• Be able to read and understand stated software requirements for a desired piece of software
• Understand the purpose, utility, and appearance of the various Views available to use with the Android and the essence of how each View is set-up and used
• Understand the purpose, utility, and general approach to implementing the Listener pattern
• Be able to delineate between an application, an activity, and a class as employed in the Android environment
• Understand the notion of the Activity stack (including its relationship to Intents and the hardware back button)
• Understand the notion and purpose of an Intent, and be able to explain how Intents can be used in Android applications to spawn new activities, to send data to activities, and to return data from activities
• Be able to read and understand code that employs Android classes & xml
• Understand the purpose and utility of Resources that can be specified in the Android environment (layouts, strings, arrays)
• Understand the major differences between what the LinearLayout and RelativeLayout support
• Understand the Android app lifecycle, including how it relates to Listeners and to the need to save application state
• Understand the relationship between and capabilities of a MapView, MapController, and GeoPoint

Things that will not be on the test:

• You will not be asked to write complicated code, or asked specifics of particular functions (i.e. that function X needs these three parameters in this order)
• You will not be asked about GeoCoding, Overlays, or Location services
• Eclipse specifics