

SAMPLE COURSE OUTLINE

Course Code, Number, and Title:

WMDD 4940: Native Android App Development

Course Format:

[Course format may vary by instructor. The typical course format would be:]

Lecture 3 h + Seminar 0 h + Lab 2 h

Credits: 3

Transfer credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

Currently Android and iOS are the two most popular operating systems on mobile devices. Students focus on creating apps for the Android platform. Topics include implementation of activities, coding intents, use of audio/visual assets, testing and deployment as well as other APIs beyond the core, such as camera, location, and sensors.

Prerequisites: A minimum grade of C in WMDD 4845 and 4930

Registration restricted to students admitted to the PDD in Web and Mobile App Design and Development

Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Decompose a design into a series of connected activities
- Implement each activity using the Java language and the Android SDK
- Incorporate audio/visual resources into the application
- Test the application to ensure it works correctly
- Deploy the native Android application to the device
- Find, decipher and use appropriate documentation for a necessary widget, feature, or language construct

Instructor(s): TBA

Office: TBA

Phone: 604 323 XXXX

Email: TBA

Office Hours: TBA

Textbook and Course Materials:

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

Joseph Annuzzi, Lauren Darcey, Shane Conder. "Introduction to Android Application Development: Android Essentials".

Wei-Meng Lee. "Android Application Development Cookbook: 93 recipes for building winning apps".

<http://developer.android.com>

Note: This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.

Assessments and Weighting:

Final Exam 20%

Other Assessments %

(An example of other assessments might be:) %

Midterm Exam: 20%

Assignments: 40%

Project: 20%

Proportion of individual and group work:

Individual: 70%

Group: 30%

Grading System: Letter grade

Specific grading schemes will be detailed in each course section outline.

Passing grade: C

Topics Covered:

[Topics covered may vary by instructor. An example of topics covered might be:]

Android Platform

Manifest

- Declares an app's components

This generic outline is for planning purposes only.

App Components

- Tasks and Activities
- Services
- Content providers
- Broadcast receivers
- Activating Components
- Intents and fragments

UI

- Views and layouts
- input controls: buttons, text fields, checkboxes, radio buttons, toggle buttons, spinners, pickers
- input events
- output controls: indicators, seek bars
- menus
- notifications
- toasts

Style

- o Themes, colors, layout, branding, typography
- Designing for multiple devices and versions of operating systems
- o Tablets, tv, car, watch
- Saving preferences

Other APIs

- Animation and Graphics
- Media and Camera
- Location and Sensors
- Connectivity
- Data Storage
- UI Testing and Deployment
- Design patterns (as they arise in Android SDK)

As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

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Departmental/Course Policies:

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