



MASTER COURSE OUTLINE

A. CPRO 1490 Intro to Mobile Apps Development I

B. COURSE DESCRIPTION:

This course covers the basic programming for creating Android apps. The course is project-oriented focusing on the major mobile platforms. Software Development Kits (SDK) will be used in the creation of mobile apps.

(3 Cr – 3 lect, 0 lab)

C. **Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Native apps
- iOS
- Android
- Phone emulators
- Windows
- SDK's
- Programming terminology
- Design fundamentals
- Database interaction
- Apps distribution

F. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>**Critical Thinking</u>	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. determine the type of mobile app that should be developed based on given case study.
<u>CS</u>	design and develop a native app.	1. code an Android app with zero errors.
<u>CS</u>	design and develop a native app utilizing multiple activities.	1. code an Android app slideshow navigating between 5 images with zero errors.
<u>CS</u>	demonstrate gesture detection.	1. code an Android app that responds to screen gestures with zero errors.
<u>CS</u>	demonstrate fragments.	1. code an Android app implementing communication between fragments

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request. Software requirements: to be announced.

H. COURSE CODING INFORMATION: Course Code T/Class Maximum 30; Letter Grade

Revision date: 04/02/18; 4/19/22

AASC Approval date: 05/03/22

*Riverland Community College Disciplines	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

**Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

*These five MnTC Goals have been identified as Riverland Community College Disciplines.

** These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.