



## MASTER COURSE OUTLINE

A. CPRO 1495 Mobile Apps Development II

B. COURSE DESCRIPTION:

This course covers the advanced programming for creating Android Apps. The course is project oriented and covers the programming needed to create Android apps. Prerequisite: CPRO1490  
(3 Cr – 3 lect, 0 lab)

C. \*\*Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addressed 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 Android Apps
- Kotlin
- Databases
- Audio
- Video
- Phone's Camera
- Apps Distribution
- Application Programming Interface (API)

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
<u>**Critical Thinking</u>	Students will be able to: 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.	The student will successfully: 1. determine the type of mobile app that should be developed based on given case study.
<u>CS</u>	design and develop an Android app.	1. code an Android app with zero errors.
<u>CS</u>	collect and store information gathered by a mobile app.	1. create a database and store information collected by the mobile app.

<u>CS</u>	design and develop an Android app to read database.	1. code an Android app to read and display data stored in database with zero errors.
<u>CS</u>	access mobile phones camera and microphone.	1. code an Android app to capture images, video and audio of a mobile phone with zero errors.
<u>CS</u>	distribute a mobile app for use on mobile devices.	1. code an Android app that meets industry standards for distribution and upload for distribution.
2. <u>CS</u>	integrate Google Maps API.	1. code an app that utilizes Google Maps to display users current location with zero errors.

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.

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

Revision date: 4/19/22

AASC Approval date: 05/03/22

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

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

\*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.

Riverland