

COUNTY COLLEGE OF MORRIS

Course Information Outline

Course Title:	<u>Mobile App Programming</u>	Prefix and Number:	<u>CMP-271</u>
Total Credits:	<u>3</u>	Credit Type:	<u>UG /IN</u>
Lecture:	<u>2</u>	Lab, Studio, Performance:	<u>1</u>
		Course Fee:	<u>Yes</u>
		Cooperative, Clinical, Internship, Practicum:	<u></u>
IT Chairperson Approval	<u>Nancy Binowski</u>	Date:	<u>9/11/2015</u>
BMET Dean Approval	<u>Patrick Enright</u>	Date:	<u>9/14/2015</u>

General Education Information:
Categories:
Integrated Goals: <i>(check all that apply)</i>

1. Catalog Course Description

This second course in a series of mobile app development courses covers advanced design elements and programming constructs. Topics include accessing device resources including the camera, accelerometer, and GPS; utilizing local and networked database services; animation and gaming; accessing background services; file management; designing for multiple devices including wearables; and localization/internationalization and accessibility design. Students will create apps individually and as part of a team and their learning will culminate with the development of a final project that will be of industry-level quality.

2. Prerequisite(s)

CMP-170

3. Co-requisite(s)

4. Textbooks

(1-1) Android How to Program

5. Supplementary Books and/or Materials

6. **Specialized equipment, supplies, facilities, for classes limited by enrollment or restricted by accreditation and/or equipment limitations.** (Information will be used to determine differential funding category.)

Department-funded development test devices (smartphones, tablets)

7. **Course Content (List of Topics)**

(1-1) Shared Preferences
(1-2) SQLite Database
(1-3) Advanced GUI Components
(1-4) File Management
(1-5) Intent Choosers
(1-6) Action Bar Menus
(1-7) Animation
(1-8) Game Applications – Canvas
(1-9) Camera
(1-10) GPS
(1-11) Accelerometer
(1-12) Background Services
(1-13) Maps
(1-14) Styles
(1-15) Design for Multiple Devices - Wearables, TV, Auto
(1-16) Localization/Internationalization
(1-17) Accessibility
(1-18) App Production Cycle

8. **Statement of Course LEARNING OUTCOMES**

The student who successfully completes this course should be able to:

Develop apps according to specification.

Work efficiently and effectively with others to jointly develop an app.

Apply the App Production Cycle to create an industry-level quality app.

9. **Statement of Relation to Curriculum(s)**

A required course in the Mobile App Development track of the AAS in Information Technology degree. CIS Elective for AS in Computer Science, AAS in CIS-Technical Support, AAS in CIS-Management Information Systems and AAS in CIS-Game Development.

10. **Format for offering the course (check all that apply)**

HYBRID

TRADITIONAL