COURSE DESCRIPTION

Prerequisites: ARTV-2470 (Handheld Devices) or instructor approval.

Course Description: Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. This course may be repeated if topics and learning outcomes vary.

A study of the essential concepts, tools, and techniques for developing Android applications for touchpad devices. Topics include basic concepts of Android development, downloading and installing the Android Software Development Kit (SDK) and creating simple applications.

This is a 4 credit hour course. (4 led., 3 lab.)

END-OF-COURSE OUTCOMES: Develop and publish an Android touchpad and/or smartphone application using the Android Development Tools (ADT).

STUDENT LEARNING OUTCOMES:
Upon successful completion of ARTV 2471, students will be able to:

• Demonstrate the use of Android Development Tools (ADT) including Android Software Development Kit (SDK) and Massachusetts Institute of Technology (MIT) App Inventor.
• Plan, create, build, upload and modify standalone applications targeted for use on Android devices.
• Communicate the terms utilized in a Mobile Application Developer profession proficiently.

COURSE MATERIALS

Textbook: NONE

Storage: A minimum of 2 GB USB Flash Drive or equivalent Internet Cloud Storage (ICS).

A student of this institution (El Centro College) is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer

MAJOR COURSE REQUIREMENTS

Students will practice ADT concepts and techniques through a series of Assignments addressing major topics covered in the course.
A **Midterm Exam** will evaluate the student’s understanding of the Mobile Devices concepts and knowledge presented in each assignment.

A **Final Project Application** will be developed proving students the ability to plan, create, build, upload and modify stand-alone applications targeted for use on Android devices.

**SUBJECT MATTER**
Topics covered in the lecture portion of the course include:

- Understanding Android Developer Tools
- Installing Android Studio
- Creating virtual devices for testing
- Designing and laying out screens
- Displaying images
- Debugging your code
- Creating new activities and layouts
- Supporting multiple screens
- Defining and using UI styles
- Handling user events
- Working with menus and the action bar
- Displaying data in a list

**DISCLAIMER**
The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.

The instructor-of-record may provide additional information to enhance the course to meet the needs of the enrolled students, provided that the enhancements do not conflict with the official course syllabus.

**INSTITUTIONAL POLICIES**
Institutional Policies relating to this course can be accessed from the following link [http://www.elcentrocollege.edu/syllabipolicies](http://www.elcentrocollege.edu/syllabipolicies).