ELCENTRO COLLEGE
ARTV 2470
INTRODUCTION TO MOBILE APPLICATION DEVELOPMENT
SYLLABUS

COURSE DESCRIPTION

Prerequisite:  Intermediate web generation skills 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 may be repeated if topics and learning outcomes vary.

This course will explore mobile web development and mobile applications design and solutions.  Topics include web-based scenarios and students will be required to provide solutions.  The course will be divided into course instruction and lab.  Course instruction will be based on industry standards from leading mobile device manufactures.  Student will be given weekly problem-based scenarios and will be required to produce working solutions provided by current manufacturers based on research performed outside of class.
Lab will consist of developing mobile solutions using XHTML, Adobe Flash, and industry accepted software and simulators.

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

WECM END-OF-COURSE OUTCOMES:  An understanding of mobile web development designs and solutions.

STUDENT LEARNING OUTCOMES:
Upon successful completion of ARTV 2470, students will be able to independently:

Demonstrate the use of common mobile device development tools including Adobe Dreamweaver, Adobe Flash, and vendor provided Software Development Kits (SDK).

Plan, create, build, upload and modify remotely hosted web page for access using web enabled mobile platforms.

Plan, create, build, upload and modify stand alone applications targeted for web enabled mobile platforms.

Communicate the terms utilized in Android Application Development.

Apply critical thinking when solving problems and providing solutions.

COURSE MATERIALS

Textbook:  NONE  Text Material provided from the Internet and other sources

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 participate in **Discussion Boards** addressing major topics covered in the course.

Students will practice concepts and techniques through a series of **assignments** addressing major topics covered in the course.

A **final exam** will evaluate the student’s understanding of the Mobile Device concepts and knowledge presented in each assignment.

**SUBJECT MATTER**

Topics covered in the lecture portion of the course include:
- Web Design Basics
- The Mobile Profile (MP)
- Formatting XHTML for MP
- Mobile CSS layouts
- Future Trends: HTML5 & CSS
- Flash IPA (iPhone) / Flash APK (Android)
- Mobile Helper Applications
- Apple iOS Software Development Kit (SDK)
- Android Software Development Kit (SDK)
- Windows Phone Software Development Kit (SDK)

**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**

All El Centro students are responsible for knowing and adhering to the following institutional and course-related policies:

- [www.elcentrocollege.edu/syllabipolicies](http://www.elcentrocollege.edu/syllabipolicies)
- [Course-related Institutional Policies](http://www.elcentrocollege.edu/syllabipolicies)