El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA   **Information Technology Systems**

COURSE RUBRIC AND NUMBER   **ITNW 2372**

COURSE TITLE   **Mobile Application Development**

COURSE HOURS   **3**   **3**   :   **1**
                                                     Credits   Lec   Lab

I.   Catalog Description

Explores developing applications for mobile devices in an SDK environment. Explores current programming issues in mobile application development. **Prerequisite: ITSE 1329**. **(3:1).**

II.   Course Objectives

Upon satisfactory completion of this course, the student will be able to:

A. Examine the market, roles, and features available for mobile device applications.
B. Identify programming languages used in mobile application development.
C. Utilize tools to design, develop, create, and modify mobile applications.
D. Identify fundamental arithmetic operations and numeric conversion methods.
E. Write, test, and correct errors using a high level programming language, Systems Development Kit (SDK), and an emulator.
F. Research and implement user interface best practices.
G. Examine additional key elements of design to include themes, fields, controls, images, animation, audio, video, etc.
H. Write and execute code using programming concepts such as variables, methods, arrays, etc.
I. Analyze problems and determine the need for decision control structures such as IF statements and logical operators.
J. Identify customer needs and develop applications using web technologies such as XML.
K. Demonstrate troubleshooting techniques and manage errors using debugging tools and exception handling code.
L. Describe publishing and deployment procedures for various mobile devices such as phones and tablets.
M. Examine existing documentation and produce new documentation.
N. Apply research, analysis, documentation, communication, security, teamwork, and other programming skills and concepts.

III.   THECB Learning Outcomes (WECM)

Learning outcomes/objectives are determined by local occupational need and business and industry trends.

IV. Evaluation

A. Preassessment

None

B. Postassessment

1. There will be four (4) written examinations. The first three exams are worth 100 points each. The final exam will be comprehensive with a value of 100 points.

2. Homework assignments will be assigned at the instructor's discretion and will be averaged on a 100-point scale.

3. Lab assignments will be assigned throughout the semester and will be averaged on a 100-point scale.

C. Remediation

The instructor may provide the students with means of improving a grade. The instructor will determine the timing, form, and method of remediation.

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.