

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<u><b>Information Technology Systems</b></u>
<b>COURSE RUBRIC AND NUMBER</b>	<u><b>ITNW 2372</b></u>
<b>COURSE TITLE</b>	<u><b>Mobile Application Development</b></u>
<b>COURSE HOURS</b>	<u>    <b>3</b>    <b>3</b>    <b>1</b></u> 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.