

Montgomery County Community College  
 CIS 240  
 Mobile Application Development  
 3-2-2

**COURSE DESCRIPTION:**

This is a comprehensive course on how to develop applications for phones, tablets and other mobile devices targeted for business needs. Students will learn how to utilize a modern mobile development environment using standard mobile development tools to build applications for distribution. Students will learn how to design mobile interfaces and how to apply mobile technology to solve common business needs. Although students may use the College's computer labs to complete their course work, it is highly recommended that students have access to a relevant mobile device or virtual machine to complete work outside of class.

**PREREQUISITE:**

Prerequisites: CIS 111B with a C or better, or prior object-oriented programming experience and permission of the Instructor.

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

| LEARNING OUTCOMES                                                           | LEARNING ACTIVITIES                                                                                            | EVALUATION METHODS                                 |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. Program mobile applications utilizing relevant mobile development tools. | Assigned Readings<br>AV/Multimedia Materials<br>Case Study<br>Demonstration and Practice<br>Lecture/Discussion | Student Programming<br>Assignments<br>Examinations |
| 2. Design mobile user interfaces.                                           | Assigned Readings<br>AV/Multimedia Materials<br>Case Study<br>Demonstration and Practice<br>Lecture/Discussion | Student Programming<br>Assignments<br>Examinations |
| 3. Differentiate distribution methods for mobile sites and apps.            | Assigned Readings<br>AV/Multimedia Materials<br>Case Study<br>Demonstration and Practice<br>Lecture/Discussion | Student Programming<br>Assignments<br>Examinations |



**COURSE APPROVAL:**

Prepared by: Sergio Carbone

Revised by: Anil Datta

Date: 11/2011

Date: 3/2014

Revised by: Matt Krause, Marie Hartlein and Jason Wertz

Provost or designee Compliance Verification:

Date: 10/1/2019

Date: 2/26/2020



*was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.*