

---

## USF Sarasota-Manatee - Substantive Undergraduate Course Proposal Form

---

### 1. College/School Contact Information

<u>Tracking Number</u> 44	<u>Date &amp; Time Submitted</u> 2016-01-07 14:55:46.0	
<u>Discipline</u> Information Technology	<u>College/School</u>	<u>Budget Account Number</u> 380700004
<u>Contact Person</u> Sarah Fayard	<u>Phone</u> 9413594619	<u>Email</u> sarahfayard@sar.usf.edu

### 2. Course Information

<u>Prefix</u> COP	<u>Number</u> 4663	<u>Full Title</u> Mobile Development with Android	
Is the course title variable?			N
Is a permit required for registration?			N
Are the credit hours variable?			N
<u>Credit Hours</u> 3	<u>Section Type</u> Class Lecture (Primarily)	<u>Grading Option</u> Regular	

Abbreviated Title (30 characters maximum)  
Mobile Apps Development

### 5. Prerequisites

COP 2030, COP 2250, and COP 3375

### 6. Corequisites

### 7. Co-Prerequisites

### 8. Course Description

This course provides the beginning programmer with a strong foundation necessary to build mobile applications for Android devices.

### 9. New Course Information

<u>New Prefix</u> N/A	<u>New Number</u> N/A	<u>New Full Title</u> Mobile Applications Development (Android)	
Is the course title variable?			N
Is a permit required for registration?			N
Are the credit hours variable?			N
<u>New Credit Hours</u> N/A	<u>New Section Type</u> Class Lecture (Primarily)	<u>New Grading Option</u> Regular	

New Abbreviated Title (30 characters maximum)  
Mobile Apps Development

12. New Prerequisites

N/A

13. New Corequisites

N/A

14. New Co-Prerequisites

N/A

15. New Course Description

N/A

16. **Justification**

A. Nature of change(s)

Based on feedback from the local business and industry experts (via IT Advisory Committee), it was recommended we update names of a few courses. This will eliminate confusion in students' minds as to which of the two Mobility courses we offer, pertains to Apps development. We offer a course in Android Web Apps - CGS 4858 which focuses on development via the web. The name change emphasizes apps development being done directly on the device. This course will complement the course on Android Web Apps with developing apps directly on the device. This knowledge and skill-set is not part of any other course. By clarifying the course title enrollments are expected to increase.

B. Indicate how this course will strengthen the Undergraduate Program.

Clarifying the precise nature of apps development will increase enrollment in this course and address the growing demand for this and similar courses.

C. What specific area of knowledge is covered by this change that is not covered by courses currently listed.

This course offers an introduction to system forensics investigation and response. Areas of study include procedures for investigating computer and cybercrime, and concepts for collecting, analyzing, recovering, and preserving forensic evidence.

D. What is the need or demand for this course? {Here you must indicate if this course is part of a required sequence in the major} What other programs would this course?

This course will be an elective and will be included in the Mobile Apps Development Certificate.

E. What qualifications for training and/or experience are necessary to teach this course?

No additional training and/or experience is required for this course.

F. What will be the effect of this change on the program and on the students? Do you plan to drop a course if this change is made? (If dropping/deleting a course please complete the nonsubstantive course change form.)

There will be no impact on students. No course is being dropped.

## 17. Other Course Information

### A. Objectives

This course provides the beginning programmer with a strong foundation necessary to build mobile applications for Android devices. Assuming little or no prior programming experience, this course introduces key programming concepts, including variables, decision making, lists, and arrays, and gives the confidence and technical skills to create fully-functional Android apps.

### B. Learning Outcomes

Upon completion of this course, students will be able to: - Describe key programming concepts - Develop a strong understanding of variables, decision making, lists, and arrays - Acquire the confidence and technical skills to create fully-functional Android apps.

### C. Major Topics

This course will cover the following content areas: " Installing the Android Eclipse SDK " Introduction to Android and the market " Android UI " User input " Implementing icons and themes " Variables " Control structures " Lists and arrays " Implementing audio, graphics and animation " Introduction to Android Tablets

### D. Textbooks

Textbook: Corrine Hoisington, Android Boot Camp for Developers using Java, Comprehensive: A Beginners Guide to Creating Your First Android Apps, Course Technology, Cengage Learning 2013, ISBN: 9781133597209 Web site: Data files to complete apps in the text are available by searching [www.cengagebrain.com](http://www.cengagebrain.com)

## 18. Syllabus

Please submit an electronic copy of your syllabus to Rhonda Moraca, [moraca@sar.usf.edu](mailto:moraca@sar.usf.edu).