CIS 4932 Mobile Device Programming
Spring 2015

1.0   Course Prefix, Number and Section: CIS 4932, 144 & 145

2.0   Course Title: Mobile Device Programming

        Course Meeting Time(s) and Location: No specified time and location

3.0   Instructor Information: Name: Abdel Ejnioui
                                Email: aejnioui@usf.edu
                                Campus: University of South Florida, Tampa
                                Division: Information Technology
                                College: Engineering

4.0   Course Prerequisites: COP 2930 IT Programming Concepts

5.0   Course Description:

        This course introduces students to programming applications on mobile devices using Android.

6.0   Course Objectives:

        The objectives of this course are:

        ⌈   Have a firm understanding of basic concepts of programming on Android.
        ⌈   Be able to apply structured design methods to develop modest Android applications.
        ⌈   Be able to implement and debug applications on the Android environment.

7.0   Learning Outcomes:

        After completion of this course:

        ⌈   Students should have a firm understanding of general concepts in Android such as views, intents, notifications and alarms.
        ⌈   Students should be able to use an IDE with the Android Development Tools for development and testing.
        ⌈   Students should be able to implement these general concepts to build mobile applications.
        ⌈   Students should know how to develop applications using graphic user interfaces, data stores, networking, web services, telephony and location services.

8.0   Method of Instruction:

        This course is a completely web-based course with an asynchronous mode of delivery. This means that there are no face-to-face meetings with the instructor. However, communication between students and instructor takes place through discussion boards and weekly synchronous sessions. Course and instructional material can be accessed through the webpage of the course on Canvas.

        Course Structure

        This course contains a set of modules where each module consists of reading the assigned sections in the textbook, studying the presentation slides, answering the

questions in a self-evaluation quiz, taking a graded module quiz, and completing a programming assignment. In order to keep pace with the course schedule shown in the course agenda, students are urged to complete a module each week. By maintaining this pace, students are better prepared to take the exam in the exam week. **The final exam is not comprehensive**. As shown in the course agenda, exam 1 covers the topics in the first half of the course while exam 2 covers the topics in the second half of the course.

Online Synchronous Sessions

The course requires students to participate in synchronous online sessions using a webware called Collaborate where students and instructor can meet online. These sessions are intended to give students an opportunity to ask questions related to the course module scheduled in that week and interact with the instructor. These sessions can also be used to view programming demos by the instructor, learn hands-on programming techniques under the supervision of the instructor, discuss among peers ways to solve programming problems, etc. With Collaborate, instructor and students can communicate in real time by talking to each other, posting brief messages on a message board, sharing desktop contents, etc. Students have the flexibility to share their desktop with one or more students and/or with the instructor. Sharing desktop is a useful way to demo programming techniques and share course content. Collaborate is similar to instant messaging augmented with effective communication features targeted for online learning.

To take advantage of these sessions, students are urged to write down a set of questions regarding the topic of the weekly module (reading assignment, presentation slides, programming assignment) and bring them to the session. The instructor will be happy to answer them. Students who cannot attend these sessions can simply email these questions to the instructor ahead of time, so the instructor can answer them during the session. These sessions will be recorded and posted in the following 24 hours on Canvas, so students can review them at their convenience. These sessions will be offered once a week from 6:30 pm to 7:30 pm. The schedule of these sessions will be posted on Canvas.

Learning Approach

To succeed in online asynchronous courses, the student must take a self-motivated and active approach to learning. In order to pursue this active approach, the student must develop critical study habits vital to learning in an online environment such as:
- Possession of excellent organization skills.
- Being a self-directed learner.
- Propensity to complete tasks ahead of time rather than waiting to the last minute.
- Capability to understand, follow, and apply written instructions.
- Willingness to learn about novel technologies without being intimidated.
- Being a skilled reader.
- Preference for written communication.
- Willingness to commit each week the necessary time to study.

9.0   Content Outline:

Week	Date	Topic	Reading
1	01/05 – 01/11	Course Introduction	
2	01/12 – 01/18	Introduction to Android	1.1 – 1.11
3	01/19 – 01/25	Classes, Objects and Methods	B.1 – B.7
4	01/26 – 02/01	Methods (Deeper Look)	D.1 – D.12
5	02/02 – 02/18	Classes & Objects (Deeper Look)	F.1 – F.13
6	02/09 – 02/15	Inheritance & Polymorphism	G.1 – G.13

7	02/16 – 02/22	Exception Handling	H.1 – H.7
8	02/23 – 03/01	Exam 1	
9	03/02 – 03/08	Spring Break	
10	03/09 – 03/15	Welcome App	2.1 – 2.8
11	03/16 – 03/22	Tip Calculator App	3.1 – 3.6
12	03/23 – 03/29	Twitter Searches App	4.1 – 4.6
13	03/30 – 04/05	Flag Quiz App	5.1 – 5.9
14	04/06 – 04/12	Address Book App	8.1 – 8.10
15	04/13 – 04/19	Catch-up Week	
16	04/20 – 04/26	Exam 2	

10.0   Required Texts:

Paul Deitel, Harvey Deitel and Abbey Deitel, *Android: How to program*, Pearson, Second Edition, 2015, ISBN-13: 978-0-13-376403-1, ISBN-10: 0-13-376403-6.

11.0   Assessment of Student Outcomes:

Exam 1	20%
Exam 2	20%
Quizzes	20%
Assignments	40%

12.0   Grading Criteria and/or Scale:

Grade	Point Value	Score	Grade	Point Value	Score	Grade	Point Value	Score
A+	4.00	+100	A	4.00	93-100	A-	3.67	92-90
B+	3.33	89-87	B	3.00	86-83	B-	2.67	82-80
C+	2.33	79-77	C	2.00	76-73	C-	1.67	72-70
D+	1.33	69-67	D	1.00	66-63	D-	.67	62-60
F	0	-59						

13.0   Technology Information

YOU MUST HAVE a USF Student ID in order to sign up for your USF NetID that is required for access to Canvas.

E-mail: Every enrolled USF student receives an official USF e-mail account. **Every official USF correspondence to students is sent to that account.** Students should go to the USF Information Technology website for "New User" information at http://www.it.usf.edu

14.0   **USF Policies**

Student Responsibility re: Academic Policies and Procedures: While advisors, directors, department chairs and campus administration are available to assist students in meeting academic regulations, policies and procedures, it is ultimately the student's responsibility to be acquainted with all academic regulations, policies and procedures, and to meet all requirements.

Undergraduate Catalog   http://www.ugs.usf.edu/catalogs/catdl.htm

Graduate Catalog   http://www.grad.usf.edu/catalog.asp

Intellectual Property: Taping lectures or classroom discussions is permitted. However, it is expected that students will request authorization from the instructor to tape a class. Notes and/or tapes of class lectures and discussions cannot be sold.

Academic Support and Accommodations for Students with Disabilities: S*tudents with disabilities are responsible for registering with the Office of Student Disabilities Services in order to receive special accommodations and services. Please notify the instructor during the first week of classes if a reasonable accommodation for a disability is needed for the course. A memorandum of accommodations from the USF Disability Services Office must accompany or follow this request during the first two weeks of the course.* ***Verbal requests for accommodations are not authorized by the Academic Support and Accommodations for Students with Disabilities policy. A written memorandum of accommodation is required from USF's Students with Disability Services (http://www.usf.edu/student-affairs/student-disabilities-services/).*** *They can be contacted at:*

Students with Disabilities Services
4202 E. Fowler Avenue, SVC 1133
Tampa, Florida 33620
Office: 813-974-4309
Email: sa-sds-information@usf.edu

Attendance

Course Attendance at First Class Meeting. Students are required to attend the first class meeting of courses for which they registered prior to the first day of the term. Names of students who register prior to the first day of the term are printed on the first class roll for each course section. The first class roll is used by professors to drop students who do not attend the first day of class. **Students having extenuating circumstances beyond their control** and who are unable to attend the first class meeting **must notify the instructor or the department prior to the first class meeting to request waiver of the first class attendance requirement.**

Students who add courses or late-register during the first week of classes will **not** be on the first class roll and, therefore, will not be dropped for non-attendance by the instructor. **Students are responsible for dropping undesired courses in these categories by the 5th day of classes to avoid fee liability and academic penalty.**

This policy is not applicable to courses in the following categories: Educational Outreach, Open University (TV), FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading, or study, individual research, thesis, dissertation, internship, practica, etc.).

Illness. Out of concern for your health and the health of those with whom you contact and work with in class, please do not travel to class if you are ill, especially if you have a fever and know that your illness is contagious. Notify the instructor either by phone or e-mail that you will not be attending class. If you should make the attempt to attend class, thinking that you are feeling better, and are visibly ill, the instructor reserves the right to send you home out of concern for you and others.

For extended illness (e.g., missing three or more consecutive class sessions), the instructor reserves the right to require medical documentation for the necessity of the absences and clearance from a doctor that it is safe for you and others for you to return to class.

Medical or Family Emergency. If a medical or family emergency should occur and at the time you are not able to contact the instructor prior to class to indicate that you will

be absent, take care of the emergency and notify the instructor of the absence and circumstances as soon as reasonable.

Religious Observances: *Students who anticipate the necessity of being absent from class due to the observation of a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second class meeting.*

Academic Dishonesty: Plagiarism is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, must be attributed to its author by means of the appropriate citation procedure. Citations may be made in footnotes or within the body of the text. Plagiarism also consists of passing off as one's own, segments or the total of another person's work.

Punishment for academic dishonesty will depend on the seriousness of the offense and may include receipt of an "F" with a numerical value of zero on the item submitted, and the "F" shall be used to determine the final course grade. It is the option of the instructor to assign the student a grade of F or FF (the latter indicating academic dishonesty) in the course.

Detection of Plagiarism

If you intend to use intend to use SafeAssignment.com, an automated plagiarism detection service for which USF has an account, it is very important that you include the statement below in your syllabus. This will give you the legal right to submit student assignments to SafeAssignment.com.

The University of South Florida has an account with an automated plagiarism detection service (SafeAssignment.com), which allows instructors to submit student assignments to be checked for plagiarism. I reserve the right to 1) request that assignments be submitted to me as electronic files and 2) electronically submit assignments to SafeAssignment.com, or 3) ask students to submit their assignments to SafeAssignment.com through myUSF. Assignments are compared automatically with a database of journal articles, web articles and previously submitted papers. The instructor receives a report showing exactly how a student's paper was plagiarized. For more information about SafeAssignment and plagiarism, go to http://www.c21te.usf.edu and click on Plagiarism Resources. More information about plagiarism can be found in the USF Undergraduate and Graduate catalogs.

Student Code of Conduct: The University of South Florida values a community based on the principles of integrity, civility, and respect. As such, the USFP community expects students to behave in a manner that supports these principles. The Student Code of Conduct is a document, which describes behavior that is counteractive to these principles and how the university will hold students accountable to those inappropriate behaviors. The Student Code of Conduct can be found at the following link:

http://www.sa.usf.edu/srr/page.asp?id=88

15.0   Instructor-Specific Course Policies (if you have any beyond policies already addressed)

Instructor's Right to Modify the Course Syllabus. (e.g., As the instructor of record of this course, I reserve the right to modify the course syllabus at any time during the course to address changes needed in content, course resources, assignments, due dates, etc. Changes will be made so as not to impact negatively students' grades.)

16.0   Frequently Asked Questions

1. *How does a student satisfy the USF mandatory first week attendance policy?*

By logging on Canvas and browsing through the course documents in the first week of classes, Canvas tracks these statistics and provides this information to the instructor.

2. *When does a student need to get the textbook and can he/she use an earlier edition?*

Students are urged to get the textbook immediately in the first week of class and get the correct edition of the textbook. The textbook is necessary to complete the weekly course modules. Because the weekly modules contain weekly graded quizzes, students will find it almost impossible to complete the weekly module quizzes without the textbook.

3. *Does a student need to physically come to campus for any reason?*

No, there are no office hours in this course. If a student needs to contact the instructor, the best way is to email the instructor at aejnioui@usf.edu. However, the instructor will grant a student a face-to-face meeting on the campus if necessary.

4. *How will students take exams? Are the exams open or closed book exams?*

In principle, all exams in this course are closed-book exams. However, since this policy cannot be enforced unless these exams are proctored, the exams will be taken through the assessment tool of Canvas. In this tool, the exams will be programmed to be accessed for a specific period of time after which they will be automatically closed. .

5. *How will students turn in their assignments?*

Students are required to use the assignment tool in Canvas. This tool allows students to upload their work as files and send them to the instructor. Students are urged not to use email for this purpose.

6. *What dates and time are exams and assignments are due?*

The due dates will be listed within each course module. In addition, announcements will be posted on the course webpage of Canvas to remind students of these due dates and times.

7. *How do students know their grades?*

Students can access their grades via the Grade-book section in Canvas.

8. *Can students turn-in work late?*

All late work will receive a null grade. No late work will be accepted.