

**JOLIET JUNIOR COLLEGE  
DEPARTMENT OF COMPUTER INFORMATION  
AND OFFICE SYSTEMS**

**COURSE SYLLABUS**

<b>Course Prefix and Number</b>	CIS 238
<b>Course Title</b>	Advanced iPhone Programming
<b>Curriculum</b>	Computer Information & Office Systems
<b>Lecture</b>	3
<b>Lab</b>	0
<b>Credit Hours</b>	3
<b>Prerequisites</b>	OFS 114, or CIS 126, or consent of department

Catalog Description

The students will delve deeper into iPhone and iPod touch development. Interaction with web API like Facebook and Twitter and even custom API as well as local database interaction will be taught. Topics to be covered include SQLite database interaction, Core Data, Core Audio with Audio Sessions, networking interface and protocols, threading, push notifications, and MapKit usage.

Course Objectives: See attached.

Prepared by:

Reviewed by:

H. Low  
Dept. of CIOS  
9/10

Ram Raghuraman  
Department Chairperson      Date

## STUDENT MATERIALS

### A. Textbook

Title: iPhone Advanced Projects

Author: Bondo, Bruzenak, Finkelstein, Goss, Harrington, Honeder, Kiddy, Llopis, Pezzillo, Pflug, Saqqau and Smith

Publisher: APress

### B. Other Required Materials

Flash drive

### C. Student Evaluation (Type of Grading)

#### 1. PROJECTS

Students will be expected to develop a final project.

#### 2. PAPERS (no. of pages, expository writing done outside of class required and graded in addition to essay examinations):

None.

#### 3. EXAMS AND WHAT TYPE:

Quizzes and Exams.

#### 4. GRADED ASSIGNMENTS

Several programming assignments.

#### 5. GENERAL GRADING POLICY INCLUDING CRITERIA AND WEIGHTING FOR FINAL SEMESTER GRADE

Programming Assignments	30%
Final Project	15%
Quizzes	15%
Exams	40%

<u>Week/Days</u>	<u>Topic or Class Activity</u>	<u>Teaching Aids or Special Instruction</u>
1	Introduction	
2	SQLite – Insert, Update, and Delete	
3	SQLite - Searching	
4	Core Data	
5	MapKit	
6	Quartz Core	
7	Core Audio – Audio Session	
8	Core Audio – Audio Units	
9	Midterm Exam	
10	Push Notifications	
11	Threading and NSOperation	
12	Keychain security	
13	Web API Interaction - Twitter	
14	Web API Interaction - Facebook	
15	XML Parsing	
16	Final Exam	

## OBJECTIVES

At the end of the course the students will be able to:

- The student will learn how to create and use databases
- The student will explore the use of maps in their application
- The student will write their own audio sessions
- The student will use the Apple Push Notification system
- The student will utilize API such as Facebook or Twitter to interact with the web