

CENTER FOR INNOVATIVE TECHNOLOGIES  
MASTER COURSE DOCUMENT

## CPDM 230 Mobile Application Development

**Course Description:** A course on designing and programming applications for current mobile devices. Topics include: GUI programming application structure; and considerations related to network, database, video, GPS sensors, and multi-touch.

**Prerequisites(s):** IT 161

**Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 2	Credit Hours: 3
Lab Fee: 70	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lec/Lab		Grading: A/B/C/D/F/I
Delivery Method: <input type="checkbox"/> Web <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Classroom		
Semesters Offered: <input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer		

### Course Primary Text:

Title: Beginning IOS 5 Application Development	Edition:
Author(s):Lee	
Publisher: Wrox	

### Supplemental Materials:

XCode on Mac
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### Course Outcomes:

1	Demonstrate basic knowledge of Objective C
2	Show competency using iOS SDK and xCode toolset
3	Develop iOS applications that include: <ul style="list-style-type: none"><li>• Multitasking</li><li>• Location-based services</li><li>• Notification system</li><li>• Cloud-based features</li></ul>

### Course Topics:

Week 1	Introduction to Objective C
Week 2	Continue Objective C
Week 3	Getting Started with iOS Programming Writing First Application

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Week 4	Understanding Views, Outlets, and Actions Exploring Different View Controllers
Week 5	Enabling Multiplatform Support Handling Keyboard Inputs
Week 6	Supporting Screen Rotation
Week 7	Midterm Project
Week 8	Creating and Persisting Data Using the Table View
Week 9	File Handling Database Storage Using SQLite
Week 10	Programming iCloud
Week 11	Assessing Built-In Applications
Week 12	Assessing Sensors
Week 13	Using Web Services
Week 14	Bluetooth Programming
Week 15	Final Project

**Methods of Evaluation/Assessment**

Assignments – 40%
Midterm Project – 20%
Final Project - 40%

Course Keeper: Bob Nields

Date Completed: 4/1/2019