DTC 338: Introduction to App Development
Syllabus, Summer 2011

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This syllabus is a working document and is subject to revision through the course of the semester.

Class Meetings:
> June 20th – July 25th
> Mondays and Wednesdays 11:00 AM to 2:20 PM
> VMMC 111

Course Description

> Students who successfully complete this course will be able to do the following:
> - Understand the basic principles and steps of development using the iPhone SDK environment
> - Code simple operations using Objective C
> - Use the Phonegap utility to import web applications into a native application

Readings:

> iOS 4 Programming Cookbook
> *Additional Course Reading on Reserve*
> Materials available online at: van-dtc356.vancouver.wsu.edu/appcamp/dtc-338/

Wordpress Blog
> Many of the projects and assignments in this course will be submitted by and through a WordPress blog. Each student will maintain and update a blog that will be populated by reflections and observations from class as well as other writings as assigned. Students will write weekly reading response entries in their blogs. These are due before class on Monday.

Course Outline (see "Assignments" for more detailed descriptions of the assignments):

	DTC 338 11:00pm
Week 1	**Intro to App Development**
6/20	Native vs. Web Apps (Nicholas) Basic Introduction to the iOS development world (Nicholas) Creation of apple developer accounts Development Blogs (Nicholas) Research Lab (Nicholas)
6/22 Reading: iOS Development Quick Start	Setting up Developers studio and tools(Nick) • Xcode • iOS SDK Hello World! Lab Exercise(Nick) Research for Hackers (Nicholas)
Week 2	**Programming Native Apps**
6/27 Reading: Code (Lessig)	Apple Development Objective C (Nick and Will) Intro to nimblekit, appcelerator, phonegap Lab: Install phonegap
6/29	Apple Development & Objective C Continued… Android Development Android SDK Java(Nick) **Intro to Class Project: Preparing an app for the app store / Writing a simple native app**
Week 3	**Databases**
7/4	Holiday
7/6 Blog Post: Code reflection from week 2	Intro to Databases CMS (Nicholas) Lab: iOS database tutorial (Nick)
Week 4	
7/11 Reading: Beautiful Teams: Why ugly teams win	Apple App Development: Guest Speaker Lab: using the camera (Nick) Reading in library course reserves: library.vancouver.wsu.edu/find-course-reserves PW: 6466kxna
7/13	Android App Development: Guest Speaker

	Lab: using geolocation (Nick)
Week 5	**Nimblekit & Marketing**
7/18 Reading: TBD	App Market Best Practices and Trends In class exercise: Market Research In class exercise: App description analysis Homework: Find an example of an excellent app description and a mediocre one.
7/20	Phonegap lab
Week 6	
7/25	Final Projects Product description exercise

Evaluation:

Assignments will be graded on the specifics of each assignment and also on the originality of the ideas included in them and the clarity of the communication style.

Course Assignments:

> **30%** **In class participation**
> Participation and engagement will be reflected in all assigned grades. However, as this is a lab course and the weight of the learning activities will take place in the lab during class, some points are reserved for homework, attendance, and participation.

> **20%** **blog writing & reading responses**
> This portion of the grade refers to participation in the blog activities. It does not evaluate blog content, but it does track whether entries are made on time and how the student participates.

> **50%** **Course Project**
> This is a hands-on class and the bulk of the students' grades will come from the major class project.

Policies and Best Practices
Attendance is expected. This course will emphasize discussion, small group work, and in-class activities and experiments. Mostly, the tools and information you will need to use will be presented and developed in class. Since this class meets only once a week, missing a particular session has a much greater impact than in classes that meet several times. If you must miss class, please make arrangements in advance with your instructor.

Because this course emphasizes discussion and participation, every effort will be made to create a comfortable, respectful class atmosphere. All students and faculty are expected to be courteous and respectful of others. Phones and other noise-making devices will need to be deactivated before entering the classroom.

Students are expected to complete readings and assignments on time. Late assignments generally are not given credit without PRIOR approval of the instructor. I am more than happy to work around extenuating circumstances, so please contact me as soon as you realize you may miss a deadline. Delaying rarely leads to a more favorable outcome.

Plagiarism and cheating are serious offenses that may be penalized severely. Unintentional plagiarism can be avoided by being aware of academic writing standards and taking care to acknowledge sources and the creators of ideas. Electronic documents can create challenges for students unfamiliar with writing from research. The ease of copying and pasting text can present special challenges for students. Know that you are plagiarizing or cheating if you:

- present someone else's words or ideas as your own, in writing or in speaking
- present ideas or paraphrasing without crediting the source
- use direct quotes with no quotation marks
- use direct quotes, charts, graphs, photographs etc without footnotes or other textual citation of the source
- present work in a group project that is not your own or the work of the group
- submit the same paper for credit in more than one course without discussing this option with the instructors involved
- submit material written by someone else as your own (this includes purchasing a term or research paper)
- submit a paper or assignment for which you have received so much help that it is no longer your own work
- do not do an equal part of the work on a group project
- copy someone else's exam or graded homework
- purposefully allow another student to copy your work or submit work you have written as his/her own

No one wants to see problems occur with academic integrity. Academic integrity is the cornerstone of the university and will be strongly enforced in this course. Any student caught cheating on any assignment will be given an "F" for the course and will be referred to the Office of Student Conduct.

Students with Disabilities Syllabus Statement
We are an institution of higher education and we have a responsibility to inform students with disabilities about the process of accessing reasonable accommodations. The Students with Disabilities syllabus statement is an important part of fulfilling that institutional responsibility, therefore we ask that all teaching faculty include it in every syllabus.

Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please visit the Disability Resource Center (DRC). All accommodations MUST be approved through the DRC (Washington Building, Room 217). Please stop by or call 509-335-3417 to make an appointment with a disability specialist.