**iOS Programming – Final Project**

**Overview**

The final project is a culmination of all the ideas and concepts learned during the semester and applied in the development and demonstration of an iOS application. This project will address a need, project or requirement. The project will be demonstrated to the class with an 8-minute (maximum) presentation of the application.

**Grading**

Grading will be scaled from 0-100 points.

Creativity 10 points

Applicable to problem it is solving 10 points

No Errors or valid error handling 10 points

User Experience 40 points

Application of all requirements 30 points (this is an all or nothing)

**General Rule for Grading**

Not completing the bare minimum of requirements is a “F”.

Completing the bare minimum of requirements is a “C”.

Adding additional functionality or making the interface nice is a “B”.

Having a “professional” app with custom icons that is ready for the App Store is an “A”.

**Minimum Requirements**

The following MUST be implemented in each project

* Minimum of 8 different scenes
* Persistent Storage (Files or Database or Core Data)
* Three Different Multi touch Gestures
* Navigation Elements (Nav Bar and/or Tab Bar)
* Interaction with Web (Web Service or Safari)
* Use of Notifications
* Use of Core Location (GPS)
* Having an interface that works for both iPad/iPhone
* Interaction with other applications (Mail, Facebook, Twitter)

**Additional Requirements**

Grad Students: Each application MUST contain FOUR of the requirements listed below.

* Use of iCloud for storage
* Use of a Split View
* Use of Rich Media (Audio or Video)
* Use of Speech Recognition
* Use of Speech Synthesizing
* Use of iCal or other Calendar technology
* Any technology not discussed in class

**Sample Projects**

Mini-Siri

Application that allow users to speak into the device and have the app perform basic questions or actions

General Business App

Application that allow users to search inventory, add items to a shopping cart and obtain general information about the business

Real Estate Searcher

Application that allow users to enter selected real estate information (# of beds, # of baths, etc) and return the results of the search to the user.

Business Translator

Application that allow users to enter a list of standard business phrases. The application will store the phrases and will translate the phrases into different languages (using web technology) when the user needs to translate into a different language

Customer Booking Software

Application that allows users to login and book appointments. Application will send reminders to the users about the appointment based on a reminder schedule that they set.

Classroom Finder

Application that allows users to type in the building that classes will be held in and have the application provide directions on how to get to their next class. Reminders to students for when classes start. Possible upgrade by allowing professors to login and send notifications to students about classroom info (cancellation, room change, etc)

News Aggregator

Application that allows users to select a series of RSS feeds and provide the ability to update their Facebook or Twitter feeds with RSS feeds they find interesting or when they add/remove an RSS feed

Babysitter Finder

Application that allows users to post when they will need a Babysitter to watch their kids. Other babysitters can browse the list of opportunities and book the appointment. Provide GPS directions to the house

House Tender

Application that allows homeowners to upload a series of tasks for maintaining a home and send reminders to users when maintenance is required. Give links to YouTube to show how to perform the maintenance and give users the ability to “check” off lists from the maintenance schedule.

Automobile Tender

Application that allows car owners to upload a series of tasks for maintaining a car and send reminders to users when maintenance is required. Use web technology to browse parts on car supply websites and order parts.