**Passaic County Community College**

**Master Syllabus**

**ACADEMIC YEAR:\_\_2015-2016\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course Code: Course Title:**

CIS 240 Mobile Apps Development

**Department/Program: Semester Offered:**

CIS / Information Technology Fall (Evening)

**Catalog Description/Course:**

Students will learn to develop platform-independent applications for mobile devices by integrating software and Web skills with cross-platform open source tools. Students will use PhoneGap and open course development software to create and layout mobile applications. Students will apply CSS, JavaScript, native phone functionality, and AJAX (Asynchronous JavaScript and XML) to an app developed in the course.

**Prerequisites:**

CIS 160 or CIS 165 or (CIS 108 and CIS 170)

**Credits: 3**

**Lecture Hours: Lab/Studio Hours: Clinical/Fieldwork Hours:**

3 N/A None

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**REQUIRED TEXTBOOK/MATERIALS**:

**Textbook:** Beginning PhoneGap: Mobile Web Framework for JavaScript and HTML5 (Ghatol, Patel).

**ADDITIONAL TIME REQUIREMENTS**:

All homework assignments are completed out of class time.

**COURSE LEARNING OUTCOMES**:

1. Implement an interactive Web application using an authoring tool

2. Use appropriate technologies to develop a complete mobile app

3. Implement geolocation within an application

4. Demonstrate knowledge of CSS, JavaScript, geolocation and AJAX

5. Describe the advantages of cross-platform development

6. Describe the process to publish an application

**General Education Outcomes (if applicable**)

NA

**GRADING STANDARD**:

|  |  |  |
| --- | --- | --- |
| **Component** | **Percentage** | **Other Information** |
| Midterm | 25% |  |
| Homework/Labs | 35% |  |
| Class Project | 15% |  |
| Final | 25% |  |

**COURSE CONTENT:**

**Student Preparation for Each Class:**

* Study time out of class is about 3 – 6 hours per week
* Read the text chapters assigned per the schedule.
* Review objectives from the chapters.
* Work on some exercises at the end of the chapter.

| Week | **Topics** |
| --- | --- |
| 1 | Course introduction  Apps, app stores, HTML5, CSS3, Javascript, Native vs. Hybrid apps |
| 2 | HTML5 elements, tags, single page applications |
| 3 | Libraries |
| 4 | CSS3 |
| 5 | CSS3 (continued) |
| 6 | Animations |
| 7 | Animations (continued) |
| 8 | Midterm  Javascript |
| 9 | Javascript |
| 10 | Local Storage/Web SQL |
| 11 | Local Databases |
| 12 | Web Data |
| 13 | Web Data continued |
| 14 | Web Data continued |
| 15 | Final Examination |

**DEPARTMENT/PROGRAM POLICIES**:

**Class Policy:**

1. Students are reminded of the College Academic Integrity policy for Passaic County Community College. Students are urged to conduct themselves accordingly.
2. Attendance required.
3. Homework and projects mandatory, collected on the due dates at the beginning of the classes. No late projects or homework will be collected, except for emergencies with valid reasons.
4. Classroom exams will be announced in advanced. No make-up exams given unless under valid emergency. Students are required to call in to inform the Professor prior to the class.
5. No eating and drinking as noted by CIS Dept. policy

**Academic Regulations and Policies:**

For Information regarding the following policies consult the College Catalog and/or Website and PCCC Student Handbook

* PCCC’s Academic Integrity Code
* Student Conduct Code
* Student Grade Appeal Process
* Intensive Writing Requirements
* Panther Alert: The College will announce delayed openings, closings, and other emergency situations through the Panther Alert System. Students are encouraged to sign up for the Panther Alert Notification. Students can sign up once they log into their Campus Cruiser Portal account through the PCCC website at [www.pccc.edu](http://www.pccc.edu).
* Cell Phone Policy: Use of cellular telephones, audible pagers, or other forms of audible electronic devices is prohibited in all academic learning environments (including but not limited to, laboratories, testing centers, classroom, library, learning centers, theater, and so forth) unless previously approved by the instructor or other authorized administrator.

**Late Homework Policy:**

* Any homework that is late will lose 15% of its value for every week that its late

**Make-Up Exam Policy:**

* Make-up exams will be permitted only under extenuating circumstances and only with prior notification and original documentation.
* Exams cannot be made-up after the exam date has passed.
* The instructor reserves the right to create alternate make-up exams

**Changes to the Syllabus:**

* The instructor reserves the right to make changes to this syllabus. In the event that changes become necessary, students will be notified during the following scheduled class.

**NOTIFICATION FOR STUDENTS WITH DISABILITIES:**

If you have a disability, and believe you need accommodations in this class, please contact Disability Services staff at 973-684-6395, or email ods@pccc.edu, to make an appointment. You should do so as soon as possible at the start of each semester. If you require testing accommodations, you must remind me (the instructor) one week in advance of each test. More information @ pccc.edu/ods.