Instructor:
Dr. David Shaffer
Room 159 Hoyt Science
Office: (724)946-7292
Cell: (724)372-0430 – if you text me, please be sure to give your name
e-mail: shaffecd@westminster.edu
Office hours: M-F 10:30-11:30am

Prerequisite: None


Objectives/Outcomes:
In this course we will explore mobile platform programming, going beyond the topics covered in our first course.

Students will be able to

• utilize a broad set of mobile user interface components
• store data in platform specific storage (SQLite on Android, for example)
• access the complete set of hardware resources on a typical mobile device including: audio output, camera, accelerometer, compass
• design and implement useful background tasks, running even when the developer’s app is not active
• connect to external services through a web services interface (optional)
• establish and communicate over a peer-to-peer network
• create animated graphical applications

Your responsibilities:
• Read ahead and understand text material.
• Complete/master the text, homeworks, labs and projects.
• Seek help immediately if you are struggling.
• Learn the material.
• Perform substantial work outside of class.

Important points/tips:
• Don’t give up after reading something once, I don’t.
• Work a problem while reading the material the second or third time.
• Understand the question and your solution before you start typing! Don’t be too reluctant to start playing with possible solutions but don’t jump into it without thinking.
• If you don’t understand some technical aspect of Javascript, play with it in a “Test” file for a while. Don’t be afraid to write throw away code.
Grading:

Letter grades are assigned based on the percentage of the available points that you receive. The grading scale is fixed. **I do not curve.** The grading scale is as follows:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Percentage</th>
<th>Letter</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>[92,100]</td>
<td>A-</td>
<td>(90,92)</td>
</tr>
<tr>
<td>B+</td>
<td>(88,90)</td>
<td>B</td>
<td>(82,88)</td>
</tr>
<tr>
<td>B-</td>
<td>(80,82)</td>
<td>C+</td>
<td>(78,80)</td>
</tr>
<tr>
<td>C</td>
<td>(72,78)</td>
<td>C-</td>
<td>(70,72)</td>
</tr>
<tr>
<td>D</td>
<td>(60,70)</td>
<td>F</td>
<td>(0,60)</td>
</tr>
</tbody>
</table>

Points will be distributed across both weekly progress (especially during the introductory portion of this course) and projects.

**Attendance:** You are expected to attend all classes. Attendance will not constitute part of your grade but failure to attend will result in no credit for missed assignments, tests, quizzes etc. Additionally, failure to attend will probably result in poorer performance on exams. **I do not provide class notes to students who miss class, excused or unexcused.**

**Homework/Projects:**

There will be several projects in this course. As these are the only means of assessing your mastery of the course material, you are expected to complete these projects without consulting classmates or other outside sources. You can and should certainly ask me for help.

Projects will be evaluated based on their level of completeness (did they meet the objectives of the project) and correctness of their existing functionality.

**Academic policies:**

The department of Mathematics and Computer Science has a set of guidelines regarding academic honesty which can be found at: [http://www.westminster.edu/staff/bonomojp/cheating.html](http://www.westminster.edu/staff/bonomojp/cheating.html)

Unless otherwise specified all exams and projects must be entirely individual work. “Verbal” cooperation on lab projects is encouraged but the exchange of programs or program fragments either electronically or by visual inspection is not allowed. Keep your work to yourself and don’t copy from others.

Cheating on exams, quizzes or projects will result in a grade of 0 (zero) for that item. All academic policies offenses will be referred to the college dean.

**Special note:** Special attention should be paid to the policies on projects discussed above. That is, if you violate the policies regarding projects, I will report the incident to the Dean of the college and you will receive no credit for that project. In many cases it is very easy to identify cases of cooperation so **DON’T DO IT.**

**Disabilities and special needs:** I will make any necessary, reasonable accommodations for students with disabilities. If you have a disability which requires accommodations, it is your responsibility to indicate to me that you have a disability and to discuss with me what special needs you might have regarding this class. In addition to notifying me, if you have a disability which requires class accommodations, you must make it known to Westminster College’s student affairs office so that they can send me the proper paperwork.

Westminster College actively strives for the full inclusion of all our students. Students with disabilities who require access solutions for environmental or curricular barriers should contact Corey Shaw, Director of Disability Support Services, located in 209 Thompson-Clark Hall.