

Mobile App Design & Computer Coding

Silicon Valley Career Technical Education (SVCTE)

Metropolitan Education District (MetroED)

Preliminaries

You must make use of your new **my.metroed.net** email address.

- Check your personal email for instructions.

You must be able to log on to **Canvas**.

- Check your email for instructions.

What is SVCTE all about?

- You will learn a trade.
 - In this course, you will learn (1) app design and (2) computer programming.
- You will learn behaviors that will put you at an advantage in the workplace and in job interviews.
- You will plot a course between where you are right now and where you want to be in the future.
 - This could be college.
 - This could be a college-level trade school or training program.

What is this course about?

- Putting your math and English skills to practical use.
- Creating web pages using HTML and CSS
- Creating graphics using SVG and math
- Creating interaction using JavaScript
- Creating graphics using Adobe Illustrator
- Creating apps for iPhone using Xcode and Swift

What you take away

- UC a-g credit
- Mission College credit: 4 units
- West Valley College credit: 4 units
- A professional portfolio
- Skills that are instantly marketable

Class Hours

- AM class: 7:30–10:30 am
- PM class: 12:45–3:45 pm
- Monday through Friday

Communication

We will communicate with each other using a limited number of technologies.

- Canvas
- MetroED email address

Canvas

- <https://svcte.instructure.com/>
- View assignments
- Turn in assignments
- View grades

Infinite Campus

- <https://metropolitanca.infinitecampus.org/>
- (I think this is the correct link)
- Attendance
- Final letter grades

MetroED emails

- You all should have signed up for your MetroED email already.
- Your email has the form somename@my.metroed.net
- You cannot log in to Canvas unless you log in to your new email first.

Grading

A	90–100 %
B	80–90 %
C	70–80 %
D	60–70 %
F	< 60%

Grading Categories and Weights

- Academic: $\frac{1}{3}$
 - Writing assignments
 - Research
 - Group projects*
- Technical: $\frac{1}{3}$
 - Programming assignments
- Career Readiness: $\frac{1}{3}$
 - College and career plans
 - Resume
 - Class decorum: attention and respect
 - Group projects*

MetroED Uniform Late Work Policy

On time	100 %
1 week late	90 %
2 weeks late	80 %
3 weeks late	70 %
4 weeks late	No credit: F

Note: The late work policy in the Mobile Apps course may be different.

Work Load

Since you will earn 30 units in this course (for the entire year), we expect that you will do *three times as much work* in this course as in any of your other courses.

We typically do one academic assignment or technical project every day in this course: about 90 assignments each semester.

Developing English Skills

- Plan out a document (presentation, product plan, case study) and put it together a little at a time.
- Use proper spelling and capitalization.
- Use proper grammar (verb tense, etc.)
- Use proper punctuation: comma, semicolon, period.
- Learn to write in a simple style appropriate for a technical company.
 - (We don't write poetry or novels.)

Developing Math Skills

- Understand coordinate points, x and y coordinates.
- Understand circle concepts such as radius and pi.
- Understand triangle concepts such as the Pythagorean Theorem.
- Learn motion concepts such as trajectories (vectors), speed and frequency.
- Learn hexadecimal numbers for specifying colors.
- Use math to lay out a user interface in a pleasing grid.

Always bring to class ...

- Paper
- Pencil
- Pen
- Phone if you have one
 - There are rules how and when you can use the phone.

Equipment (home)

- We do not expect you to do a lot of work at home, but you can if you want to.
- You can access Canvas using a Chromebook or possibly a tablet or phone.
- You can do writing assignments using Google Docs on a Chromebook.
- You cannot use a Chromebook or tablet to write the HTML code.
 - You need a Windows PC or Mac that has a file system.
 - You need a text editor. In our class, we use Visual Studio Code.
- You need a Mac to write iPhone apps using Xcode.
 - In the classroom, we have iMacs.
 - We hope to have newer Macs some time during the year.

Mobile Apps Course Motto

Make the world a better place.



Introductions

- What is your name?
- What is your home school?
- Why are you taking this class?

Student work from last year

<http://mobileapps2122.svcteststudents.org>



Make the world a better place

What is the biggest problem we face in the world today?