

Mobile App Design and Computer Coding : PM Section

Fall 2018	Spring 2019
<ul style="list-style-type: none"> • Graphic Design • Web Development using HTML • Vector Graphics using SVG • Basic JavaScript coding • Adobe Illustrator • Final Project (group) • Portfolio 	<ul style="list-style-type: none"> • App Design • Swift Coding • Final Project (individual) • Final Project (group)

Fall 2018 Topics and Assignments (Tentative)

Graphic Design Topics	Graphic Design Assignments
<ul style="list-style-type: none"> • Color theory and Hex colors • Pixels, Points, and other measurements • Typography • Target Audience • Web Navigation • Intellectual Property • Image File Formats • Adobe Illustrator: Pen Tool • Adobe Illustrator: Pathfinder Tool • Photoshop: Crop • Apple Device Sizes 	<ul style="list-style-type: none"> • Color scheme • Target audience • Project Proposal • Group project: Class Logo • Navigation Icons • Thumbnails (Photoshop)
Web Development Topics	Web Development Assignments
<ul style="list-style-type: none"> • Basic HTML • HTML Tables • CSS • Responsive Design 	<ul style="list-style-type: none"> • Portfolio master web page • Portfolio web site with linked pages • Group project • Table of Mac key shortcuts • Table of Apple mobile device screen sizes • Table of Apple icon size requirements
JavaScript Topics (Coding)	JavaScript Assignments
<ul style="list-style-type: none"> • Constants and Variables • Data Types • Expressions and Statements • Functions • Conditionals • Loops • Arrays • Strings • Document-Object Model • Random numbers • HTML5 Canvas 	<ul style="list-style-type: none"> • Web pages with dynamic data • Web pages with user interaction • Web pages with consistent navigation • Random shapes (or similar) • Shapes with user input • Animation: <ul style="list-style-type: none"> ○ SVG (basketball or similar) ○ SVG carousel (icons or similar) ○ HTML5 Canvas (Snowglobe or similar)

SVG Topics	SVG Assignments
<ul style="list-style-type: none"> • Shapes (rectangle, circle, polygon) • Text, Curves, Paths, Groups • Gradients • Clipping paths • Duplication with <use> • Transforms: translate, rotate, scale 	<ul style="list-style-type: none"> • Draw a poster or similar • Copy an existing icon • Create an original icon • Draw an animated basketball or similar • Draw a 3-D molecular model or similar
Adobe Illustrator	Adobe Illustrator Assignments
<ul style="list-style-type: none"> • Shapes (rectangle, circle, polygon) • Text • Pen Tool • Align tool • Pathfinder tool 	<ul style="list-style-type: none"> • Navigation Icons • Business Card • Gear • Apple • Logo for a business • Poster or album cover • SVG export • Bezel for an app screen shot
Other Topics	Weekly Assignments
<ul style="list-style-type: none"> • Reading • Writing • Research • Math • Employability • Technology 	<ul style="list-style-type: none"> • Project proposal and other app ideas • Target audience • Current events • Coordinate calculations • Rationale, Inspiration • Personality tests • Google Docs, Google Slides

Spring 2019 Topics (Tentative)

Xcode and Swift	Career Readiness
<ul style="list-style-type: none"> • Constants, Variables, Operators • Control Flow • Strings • Functions • Structures • Collections, Loops • Data • Optionals, Scope • Enumerations • Segues and Navigation • Table Views • Scroll Views • Saving Data 	<ul style="list-style-type: none"> • Resume • Cover Letter • Writing Sample • Portfolio