Janeen Soria ([jsoria@luc.edu](mailto:jsoria@luc.edu))

Every Thursday 3:30pm-5:30pm

Room 106

Girls Who Code website login: <https://hq.girlswhocode.com/login>

Survey (getting to know you) link: <https://forms.gle/1wnLKVzrzsGZV1Uv6>

Color scheme:

Purple- web design (HTML/CSS)

Blue- coding logic (Java)

Orange- time to work on group projects

Red- projects due

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| Date | Topics | Schedule | Helpful Links | Hours/Anticipated hours per week |
| Week 1: 1/9/2020 | * What can you do with compsci? * Tech careers * Coding process | 1. Introductions 2. GWC website 3. Survey 4. Discussion on computer science 5. Project examples | * [GWC video](https://www.youtube.com/watch?v=KZkhuS5C8eQ&feature=emb_title) * [GWC website login](https://hq.girlswhocode.com/login) * [Tech careers](https://www.computerscience.org/careers/) | 1 |
| Week 2: 1/16/2020  WEB DESIGN | * Creating a website * HTML (Hyper Text Markup Language) * Title, heading, paragraph, lists tags * Notepad++ | 1. Intro to creating websites 2. Coding your first HTML file 3. Project example | * [Code editor](https://jsfiddle.net/) * [Basic tags](https://www.w3schools.com/html/html_basic.asp) * [Website project example](https://github.com/Zoryna/first-website) * [Exercise](https://github.com/Zoryna/gwc-material/blob/master/sullivanhs/webdesign/exercise.html) | 1 |
| Week 3: 1/23/2020 | * Link, image, button, list tags | 1. Code links 2. Code images 3. Code buttons 4. Code lists | * [Adding content tags](https://www.w3schools.com/html/html_basic.asp) * [More on the Image tag](https://www.w3schools.com/html/html_images.asp) | 5 |
| Week 4: 1/30/2020 | * Background color, text color, fonts, text size | 1. Code background color 2. Code text color 3. Code fonts 4. Code text size | * [Style tags](https://www.w3schools.com/html/html_styles.asp) * [Code colors](https://coolors.co/ddd8c4-a3c9a8-84b59f-69a297-50808e) | 5 |
| Week 5: 2/6/2020  (begin 2 hour meetings) | * CSS (cascading style sheets) * Combining HTML and CSS | 1. Review/practice (activity) 2. Internal and external CSS 3. Coding your first CSS file 4. Standups | * [Types of CSS](https://www.w3schools.com/css/css_howto.asp) * [More HTML](https://www.w3schools.com/howto/default.asp) | 6 |
| Week 6: 2/13/2020 | * UI and UX * HTML/CSS | 1. Name Game ice breaker 2. Loyola Girls Who Code announcement 3. UI/UX video 4. More practice with HTML and CSS (activity) 5. Web design video 6. Discuss project ideas 7. Standups | * [What is UI and UX](https://www.usertesting.com/blog/ui-vs-ux/) * [Difference between UI and UX](https://www.youtube.com/watch?v=hQ1rpJKyj68) * [More HTML](https://www.w3schools.com/howto/default.asp) * [Web design tips](https://www.orbitmedia.com/blog/web-design-tips/) * [Crash course web design](https://www.youtube.com/watch?v=F4fbwKV9dBU) | 6 |
| Week 7: 2/20/2020 | * UI/UX * HTML/CSS | 1. Name Game ice breaker 2. Girls Who Code website features discussion 3. Favorite website/app features discussion 4. Pick a tag, learn it, and become an expert activity 5. Group project discussion 6. Standups | * [GWC Info Page](https://girlswhocode.com/) * [More HTML](https://www.w3schools.com/howto/default.asp) * [More CSS](https://www.w3schools.com/css/default.asp) | 6 |
| Week 8: 2/27/2020  Start JAVA | * Java * Algorithms * Differences among Java and HTML/CSS | 1. Name Game ice breaker 2. Survey and get shirt sizes 3. Intro to programs video 4. Algorithm group activity 5. Coding languages video 6. Intro to Java 7. Coding your first Java file 8. Standups | * [Programs video](https://www.youtube.com/watch?v=THOEQ5soVpY) * [Coding languages video](https://www.youtube.com/watch?v=Nc31NAujTkA) * [Java editor](https://repl.it/languages/java10) * [Java basics](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/index.html) * [Java if-else](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/if.html) | 6 |
| Week 9: 3/5/2020 | * Differences among Java and HTML/CSS * Java variables * Java if-else statements | 1. Rock paper scissors game 2. Quick review of first exercise 3. Variables, Strings, ints 4. If-else logic/exercise 5. Standups | * [Java if-else](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/if.html) * [Rock, Paper, Scissors](https://github.com/Zoryna/gwc-material/blob/master/sullivanhs/java/RockPaperScissors.java) | 6 |
| **Week 10:** 3/12/2020 | * Java if-else * Java for-loops | 1. Mention GWC Summer Immersion program 2. Quick review of if-else, variables 3. For-loop video 4. For-loop logic/exercise 5. Standups | * [Java for-loop video](https://www.youtube.com/watch?v=wxds6MAtUQ0) * [Java for-loops](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/for.html) * [Exercise](http://www.beginwithjava.com/java/loops/questions.html) | 6 |
| **Week 11:** 3/19/2020 | * Java arrays | 1. Array logic 2. Coding arrays 3. Standups | * [Java arrays](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/arrays.html) * [Exercise](http://www.beginwithjava.com/java/arrays-arraylist/questions.html) | 6 |
| **Week 12:** 3/26/2020 | * Java * Tech used in compsci | 1. More practice with Java 2. Standups 3. Discussion on compsci | * [More basic Java exercises](https://www.w3resource.com/java-exercises/basic/index.php) | 6 |
| **Week 13: 4/2/2020**  BEGIN PROJECTS | * Pair programming * Development process * Creating a plan/wireframes | 1. Explore neighborhood 2. Discussion on group projects 3. Discussion on developing a project | * [Code editor](https://jsfiddle.net/) * [HTML/CSS](https://www.w3schools.com/) * [What is UI and UX](https://www.usertesting.com/blog/ui-vs-ux/) * [Web design tips](https://www.orbitmedia.com/blog/web-design-tips/) * [Code in Java](https://repl.it/languages/java10) * [Java basics](https://docs.oracle.com/javase/tutorial/java/nutsandbolts/index.html) | 6 |
| Week 14:4/9/2020  CPS SPRING BREAK |  |  |  | 0 |
| **Week 15:** 4/16/2020 | * How to research for projects * Creating a plan/wireframes * Testing * Debugging | 1. Research for projects 2. Work on projects 3. Standups |  | 6 |
| **Week 16:** 4/23/2020 |  | 1. Research for projects 2. Work on projects 3. Standups |  | 6 |
| **Week 17:** 4/30/2020 |  | 1. Work on projects 2. Standups |  | 6 |
| **Week 18:** 5/7/2020 |  | 1. Work on projects 2. Standups |  | 6 |
| **Week 19:** 5/14/2020 |  | 1. Work on projects 2. Standups |  | 6 |
| **Week 20:** 5/21/2020 | * Testing/debugging | 1. Work on projects 2. Standups |  | 6 |
| **Week 21:** 5/28/2020 | * Testing/debugging | 1. Work on projects 2. Standups |  | 6 |
| **Week 22:** 6/4/2020 | * Debugging | 1. Work on projects 2. Finish projects 3. Standups |  | 6 |
| **Week 23:** 6/11/2020  PROJECTS DUE | * Studying compsci/tech in college * Tech careers | 1. Showcase projects 2. Standups 3. Discussion on compsci 4. Survey |  | 6 |
|  |  |  |  | **Total hours: 120** |

\*Meetings will change to 2 hours each starting in Feb.

\*Prep time for each week (starting the week of 1/20) would be ~4 hours