

Code is: Your Voice

This introductory course for beginners allows students to use code as a way to share what is important or interesting to them. All five projects in this mini-course provide ways for students to either follow along in the lesson or create their own unique projects, all while learning to program in HTML, CSS and JavaScript. Students are guided through the experience with video tutorials, live coding and access to the BSD code glossary.

Teaching Suggestions:

This course can be delivered to students virtually or face-to-face and can be instructor led, or self paced. This course can also be a tool for you to develop your own skills and can be taken as a form of Professional Development. The main 5 lessons of this course were developed with video tutorials for most of the concepts and each project contains a short pre and post test to gauge learning and mastery of the concepts introduced.

Total number of lessons: **5 (with 3 extra)**

Total hours required for the unit: **5-10**

Learning Goal

Students will start to develop a fundamental understanding of basic to intermediate concepts in HTML, CSS and JavaScript by working through a progression of 5 projects aimed at using code as a way for students to share their own interests.

Learning Outcomes

Students will be able to:

- Describe the uses and basic syntax of HTML, CSS, and JavaScript by doing a series of projects on BSD Online
- Apply their learning of web development concepts, as well as HTML, CSS, and JavaScript to contextualize a web page.

Lesson		Activity/Project	Learning Objective(s)
1	The People Who Inspire Me	<ul style="list-style-type: none"> - Build a simple web page showing the top 3 people who inspire you 	<ul style="list-style-type: none"> - Basic HTML syntax - Basic CSS syntax
2	My Favorites Website	<ul style="list-style-type: none"> - Build a simple web page telling us your 3 favorite things 	<ul style="list-style-type: none"> - Demonstrate connections between HTML and CSS
3	Trivia Game Maker	<ul style="list-style-type: none"> - Build an interactive trivia game and make your own trivia questions 	<ul style="list-style-type: none"> - Basic JavaScript Syntax - Continued practice with HTML and CSS
4	Jokes and Riddles	<ul style="list-style-type: none"> - Build a set of cards that flip to reveal the answer to your favorite jokes or riddles 	<ul style="list-style-type: none"> - Apply intermediate concepts in CSS and JavaScript
5	Support My Cause	<ul style="list-style-type: none"> - Build a landing page to collect the email addresses of supporters of your favorite cause 	<ul style="list-style-type: none"> - Learn to use basic functions of a database in JavaScript

Optional Extension Projects -Can be done at student's own pace and time

6	Animated Text	<ul style="list-style-type: none">- Create an animated text object with your name or any other text	<ul style="list-style-type: none">- Further develop intermediate skills in CSS and JavaScript
7	Robot Builder	<ul style="list-style-type: none">- Build a robot costume changer	<ul style="list-style-type: none">- Learn to add multiple sections of images that are controlled with CSS and JavaScript