

Sisi Virasak
CS133J – Programming in JavaScript
Spring 2021 Syllabus

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Course Description and Objectives:

For the web developer already familiar with (X)HTML and CSS who wants to add interactivity, error checking, simple animations and special effects via client-side scripting. Prerequisite: CIS 195 Web Development I with a grade of "C" or better or equivalent experience as determined by a Computer Systems Department advisor.

Required Course Materials:

- 1) A minimum 2GB USB drive to store assignments and projects
- 2) A Smarter Way to Learn JavaScript: The new approach that uses technology to cut your effort in half (ISBN 10: 1497408180) Or download free PDF on Moodle (top).

Learner Outcomes:

- Demonstrate an understanding of data types, variables, objects and functions in JavaScript.
- Demonstrate an understanding of the functional programming paradigm and its application.
- Demonstrate an understanding of control structures in JavaScript.
- Use JavaScript to access specific page elements via the Document Object Model (DOM).
- Use JavaScript to add validation to HTML forms.

Grades Table:

Assignments/Exams	Weight
Labs (10 pts each) Submit all files in Moodle 10% each day late	30%
Weekly Quizzes (20 pts each)	30%
Final Project (100 pts)	40%
TOTAL	100%

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Academic Honesty:

Helping, or being helped by, another student during an exam will be considered a breach of academic honesty and is grounds for receiving a zero grade and/or failing the course among other possible remedies.

LBCC Center for Accessibility Resources:

Students who may need accommodations due to documented disabilities, or who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you believe you may need accommodations, but are not yet registered with CFAR, please go to <http://linnbenton.edu/cfar> for steps on how to apply for services or call 541-917-4789.

LBCC Comprehensive Statement of Nondiscrimination:

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

LBCC Statement of Inclusion:

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill (related to Board Policy #1015).

Important Dates:

- Last Day to Add/Drop April 5
- Last Day to Withdraw May 16

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Week	Activity	Due
Week-1 Mar 29	<ul style="list-style-type: none"> ➤ Welcome, introductions, scope & set clear expectations ➤ Alerts, Variables for Strings, Variables for Numbers, Variable Names Legal and Illegal, Math Expressions: familiar operators, Math Expressions: unfamiliar operators, Math Expressions: eliminating ambiguity, Concatenating text strings, Prompts ➤ Lab 1 ➤ Week 1 Quiz 	April 4 @ 11:59 pm
Week-2 April 5	<ul style="list-style-type: none"> ➤ if statements, Comparison operators, if...else and else if statements, Testing sets of conditions, if statements nested, Arrays, Arrays: adding and removing elements, Arrays: removing, inserting, and extracting elements, for loops, for loops: flags, Booleans, array length, and loops interruptus, for loops nested ➤ Lab 2 ➤ Week 2 Quiz 	April 11 @ 11:59 pm
Week-3 April 12	<ul style="list-style-type: none"> ➤ Changing case, Strings: measuring length and extracting parts, Strings: finding segments, Strings: finding a character at a location, Strings: replacing characters, Rounding numbers, Generating random numbers, Converting strings to integers and decimals, Converting strings to numbers, numbers to strings, Controlling the length of decimals, Getting the current date and time, Extracting parts of the date and time, Specifying a date and time, Changing elements of a date and time ➤ Lab 3 ➤ Week 3 Quiz 	April 18 @ 11:59 pm

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<p>Week-4 April 19</p>	<ul style="list-style-type: none"> ➤ Functions, Functions: passing them data, Functions: passing data back from them, Functions: local vs. global variables, switch statements: how to start them, switch statements: how to complete them, while loops, do...while loops, Placing scripts, Commenting ➤ Lab 4 ➤ Week 4 Quiz 	<p>April 25 @ 11:59 pm</p>
<p>Week-5 April 26</p>	<ul style="list-style-type: none"> ➤ Events: link, Events: button, Events: mouse, Events: fields, Reading field values, Setting field values, Reading and setting paragraph text, Manipulating images and text, Swapping images, Swapping images and setting classes, Setting styles, Target all elements by tag name, Target some elements by tag name ➤ Lab 5 ➤ Week 5 Quiz 	<p>May 2 @ 11:59 pm</p>
<p>Week-6 May 3</p>	<ul style="list-style-type: none"> ➤ The DOM, The DOM: Parents and children, The DOM: Finding children, The DOM: Junk artifacts and nodeType, The DOM: More ways to target elements, The DOM: Getting a target's name, The DOM: Counting elements, The DOM: Attributes, The DOM: Attribute names and values, The DOM: Adding nodes, The DOM: Inserting nodes ➤ Lab 6 ➤ Week 6 Quiz 	<p>May 9 @ 11:59 pm</p>
<p>Week-7 May 10</p>	<ul style="list-style-type: none"> ➤ Objects, Objects: Properties, Objects: Methods, Objects: Constructors, Objects: Constructors for methods, Objects: Prototypes, Objects: Checking for properties and methods ➤ Lab 7 ➤ Week 7 Quiz 	<p>May 16 @ 11:59 pm</p>

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<p>Week-8 May 17</p>	<ul style="list-style-type: none"> ➤ Browser control: Getting and setting the URL, Browser control: Getting and setting the URL another way, Browser control: Forward and reverse, Browser control: Filling the window with content, Browser control: Controlling the window's size and location, Browser control: Testing for popup blockers ➤ Lab 8 ➤ Week 8 Quiz 	<p>May 23 @ 11:59 pm</p>
<p>Week-9 May 24</p>	<ul style="list-style-type: none"> ➤ Form validation: text fields, Form validation: drop-downs, Form validation: radio buttons, Form validation: ZIP codes, Form validation: email ➤ Lab 9 ➤ Week 9 Quiz 	<p>May 30 @ 11:59 pm</p>
<p>Week-10 May 31</p>	<p>**Holiday-Memorial Day on Monday May 31**</p> <ul style="list-style-type: none"> ➤ Exceptions: try and catch, Exceptions: throw, Handle events within JavaScript ➤ Lab 10 ➤ Week 10 Quiz <p>Final Project Due Sunday June 6 @ 11:59 PM</p>	<p>June 6 @ 11:59 pm</p>