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# CMPT 1421: Web Development with JavaScript

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## EFFECTIVE DATE

March 2021

## DEPARTMENT

Computers - City Centre

## DESCRIPTION

Students will create an application that takes website visitor inputs, performs calculations in real time, and presents the visitors with the results of those calculations. As part of the course, students will create and dynamically update web pages using JavaScript, use JavaScript to accept user inputs on a website and produce dynamic assets, and work with third-party APIs to pull real-time data into their website.

## CREDITS

0.0

## YEAR OF STUDY

General Interest

## PREREQUISITES

Experience with basic web development (HTML/CSS) is recommended.

## COREQUISITES

None

## COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Create a basic website.
- Create and dynamically update web pages using JavaScript.
- Use JavaScript to accept user inputs on a website and produce dynamic assets.
- Work with third-party APIs to pull real-time data into their website.
- Work with user inputs to parse strings, and apply RegExp to process user inputs.
- Implement basic security web practices against cross-site scripting (XSS) attacks.
- Understand interpreted language basic principles.

## **PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)**

None

## **HOURS**

Lecture: 0

Lab: 18

Other: 0

## **INSTRUCTIONAL STRATEGIES**

### **GRADING SYSTEM**

Satisfactory/Unsatisfactory

### **PASSING GRADE**

'S' based on minimum 80% attendance.

## **EVALUATION PLAN**

None

## **COURSE TOPICS**

- JavaScript
  - Web development
  - API interfacing
  - Dynamic webpages
  - Working with user inputs
  - RegExp
  - String parsing
  - Security best practices against XSS (cross-site scripting)

## **LEARNING RESOURCES**

None



Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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**Broadway campus**

1155 East Broadway  
Vancouver, B.C. Canada  
V5T 4V5

**Downtown campus**

250 West Pender Street  
Vancouver, B.C. Canada  
V6B 1S9

**Annacis Island campus**

1608 Cliveden Avenue  
Delta, B.C. Canada  
V3M 6P1

604.871.7000

**vcc.ca**

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