



**Course** Programming: Web Fundamentals (2013-2014)

**Code / Version** PROG1800 (102)

**Total Hours** 60

**Credits** 4

**PreRequisite(s)** PROG1780 (100) Programming: Fundamentals  
or PROG8005 (100) Programming: Computer Applications  
or PROG8090 (100) Programming: Computer Applications

**CoRequisite(s)**

### Course Description

This course introduces the student to web-based applications development using browser based development tools. The students will program both client and server-side scripting inside of HTML forms.

**PLAR Eligible:** Yes

### Course Outcomes

Successful completion of this course will enable the student to:

1. Code fundamental concepts: objects, properties, values, methods, events, variables, arrays, and functions in client-side and server-side scripting.
2. Enhance Web pages with JavaScript (client-side).
3. Create forms and validation objects.
4. Build Rich Interactive Web Front Ends with jQuery.
5. Populate a Database from the Web with PHP (server-side) with validations.
6. Manage multiple-form applications.

### Unit Outcomes

Successful completion of the following units will enable the student to:

- 1.0 Javascript (Client-side) Scripting Using Events, Modifying Properties and Creating Variables
  - 1.1 Use functions for validating objects within forms.
- 2.0 Web Pages with JavaScript
  - 2.1 Enhance coding to emphasize best practices.
    - 2.1.1 Using scripting with array's, conditional branching and loops
- 3.0 Working within Web Forms
  - 3.1 Enhance Form Validation within textfields, radio buttons, check boxes and or selections.
- 4.0 Javascript and its Relationship with jQuery
  - 4.1 Accessing Elements of the Web Page
    - 4.1.1 Executing Functions after the DOM has been built
    - 4.1.2 Create elements and insert into the Web Page
- 5.0 Code within PHP (server-side)Scripting
  - 5.1 Differ between JavaScript and PHP.



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6.0 PHP Scripting to Validate Data Received From the Validation in Javascript

6.1 Use functions for validating objects.

7.0 Validation From Javascript (client-side) and Validation in php (server-side)

7.1 Connect to an access database using SQL to create a CRUDD.

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**Required Student Resources**

Elizabeth Drake. Javascript Programming. Pearson.

Feature Packaged with Learning jQuery by Ralph Steyer

Internet and instructor's handouts

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**Optional Student Resources**

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**Evaluation**

The minimum passing grade for this course is 55 (D).

In order to successfully complete this course, the student is required to meet the following evaluation criteria:

Tests	60.00
Assignments	40.00
	<hr/>
	100.00 %

A passing grade in both the test and assignment portion independently is required in order to attain standing in this course. If the student fails one or both portions, then the lowest failing mark is submitted.

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**Other**

Conestoga College is committed to providing academic accommodations for students with documented disabilities. Please contact the Accessibility Services Office.

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**Prepared By** Liz Stacey

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**School** Information Technology

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**Date** 2014-01-06

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