



A POLYTECHNIC INSTITUTION

School of Computing & Academic Studies
Program: Part-time Studies

Introduction to Web Development and Design

Start Date: April 29, 2010

End Date: July 26, 2010

Total Hours: 36 **Total Weeks:** 12

Term/Level: 201020 **Course Credits:** 3.0

Hours/Week: 3.0 **Lecture:** 1.5 **Lab:** 1.5

Prerequisites

Course No.	Course Name
COMP 1002	Microsoft Windows XP

COMP 1850 is a Prerequisite for:

Course No.	Course Name
COMP 1904	Introduction to Flash MX 2004 Professional for PC
COMP 1907	Macromedia HomeSite Workshop
COMP 1911	JavaScript Workshop
COMP 1920	Server-side Web Scripting with PHP Level 1
COMP 1950	Intermediate Web Development and Design
COMP 1955	Introduction to Web Interface Design
COMP 2899	XML for Web Application Development Level 1
COMP 2900	Web Practicum

■ Course Description

This course introduces the fundamental principles and techniques for designing and developing effective Web sites. Topics include: hand-coding pages with HTML; styling text and content with CSS; creating and managing images for the web; adding dynamic features with client-side scripting techniques; and managing files and Web sites using FTP software. Students will also be introduced to information architecture and interface design, as well as basic interactivity using HTML forms. This course is the foundation for more advanced web courses.

■ Detailed Course Description (optional)

See class web site: <http://www.signalflare.ca/1850/>

■ Evaluation

Homework	10%	Comments:
Assignments	20%	
Midterm	15%	
Major Project	25%	
Final Exam	30%	
TOTAL	100%	

■ Course Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

- Outline and plan a basic Web site.
- Mark up pages by hand using (X)HTML.
- Plan site and page elements using information design techniques.
- Create basic interface elements using Photoshop or similar software.
- Style text and page elements using CSS.
- Use CSS as an alternative to tables for page layout.
- Understand introductory concepts for client-side scripting.
- Implement server-side includes and server-side scripting for basic form processing.
- Manage Web pages and sites with FTP

■ Verification

I verify that the content of this course outline is current.

Dave Tanchak
Authoring Instructor

Date

I verify that this course outline has been reviewed.

Kevin Cudihee, Program Head/Chief Instructor

Date

I verify that this course outline complies with BCIT policy.

Kim Dotto, Dean/Associate Dean

Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

■ Instructor(s)

E-mail Address: bcit1850@gmail.com

■ Learning Resources

Required:

Felke-Morris, Terry, *Web Development & Design Foundations with XHTML* (5th Edition)
Addison Wesley **ISBN-10:** 0-132-12270-7 **ISBN-13:** 978-0-132-12270-2

Recommended:

See class Web site: <http://www.signalflare.ca/1850/>

■ Information for Students

The following statements are in accordance with the BCIT Policies 5101, 5102, 5103, and 5104, and their accompanying procedures. To review these policies and procedures, please refer to:

<http://www.bcit.ca/about/administration/policies.shtml>

Attendance/Illness:

In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or program. Please see Policy 5101 — Student Regulations, and accompanying procedures: <http://www.bcit.ca/files/pdf/policies/5101.pdf>

Academic Misconduct:

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited and will be handled in accordance with Policy 5104 — Academic Integrity and Appeals, and accompanying procedures: <http://www.bcit.ca/files/pdf/policies/5104.pdf>

Attempts:

Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from their respective program.

Accommodation:

Any student who may require accommodation from BCIT because of a physical or mental disability should refer to BCIT's Policy on Accommodation for Students with Disabilities (Policy #4501), and contact BCIT's Disability Resource Centre (SW1-2300, 604-451-6963) at the earliest possible time. Requests for accommodation must be made to the Disability Resource Centre, and should not be made to a course instructor or Program area.

Any student who needs special assistance in the event of a medical emergency or building evacuation (either because of a disability or for any other reason) should also promptly inform their course instructor(s) and the Disability Resource Centre of their personal circumstances.

■ Assignment Details

See class Web site: <http://www.signalflare.ca/1850/>

Schedule

Week of/ Number	Outcome/Material Covered	Reference/ Reading	Assignment	Due Date
Apr 29	Course Introduction: Account setup, introductory HTML concepts	None	Homework 1	
May 6	HTML & FTP: Page formatting, images and file management	See class website	Homework 2	Homework 1 Due
May 13	XHTML: Creating lists, links and tables	See class website	In-class exercise (no marks)	Homework 2 Due
May 20	XHTML & CSS: Getting started with style sheets: paragraphs and text	See class website	Homework 3	Assignment One Due
May 27	Cascading Style Sheets: Advanced techniques	See class website	In-class exercise (no marks)	Homework 3 Due
Jun 3	Planning Site Structure: Principles of information architecture and interaction design	See class website	In-class exercise (no marks)	Midterm
Jun 10	Design Principles: Visual design principles for the Web	See class website	In-class exercise (no marks)	Assignment Two Due
Jun 17	Layout & Graphics: Creating and managing graphics for the web	See class website	In-class exercise (no marks)	
Jun 24	Forms: Adding basic interactivity to your site	See class website	Homework 4	
Jul 1	NO CLASS			
Jul 8	Client-side Scripting: Adding JavaScript elements	See class website	Homework 5	Homework 4 Due
Jul 15	Server-side Scripting: Server-side scripting concepts and server side includes	See class website	In-class exercise (no marks)	Homework 5 Due
Jul 22	Review & Examination: Q&A, Troubleshooting projects	None	None	Project Due Final Exam