



School of Business
Program: Associate Certificate in Web Technologies
Option:

MDIA 4305
XML in Web Publishing

Table with course details: Start Date, End Date, Total Hours (36), Total Weeks (12), Term/Level (201130), Course Credits (3), Hours/Week (3), Lecture, Lab, Shop, Seminar, Other, Prerequisites, and MDIA 4305 is a Prerequisite for.

Course Description

This is an introduction to using XML (EXtensible Markup Language) to enhance Web page design and for e-commerce applications. Topics will include the structuring of an XML document, transforming an XML document into XHTML using XSL (EXtensible Stylesheet Language) and XPath, creating a DTD (Document Type Definition) and an XML Schema to define the elements and attributes which are valid in a XML document. The course will include an introduction to using XML in a Web publishing environment.

Evaluation

Table with evaluation details: Assignment 1 (20%), Assignment 2 (20%), Assignment 3 (20%), Assignment 4 (20%), Assignment 5 (20%), TOTAL (100%).

Course Learning Outcomes/Competencies

Upon successful completion, the student will be able to:

- identify and use syntax appropriate to well-formed XML files
• correctly employ XSL stylesheets and XPath to transform an XML file into XHTML for display on a web page
• use routines such as sorting, filters, iterations, conditional statements, and templates appropriate to XSL stylesheets
• construct a DTD, and validate an XML document against the DTD
• construct a Schema, and validate an XML document against the Schema
• use an XML editor

Verification

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

Mary Anne Conforti

Authoring Instructor

Date

I verify that this course outline has been reviewed.

Program Head/Chief Instructor

Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean

Date

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

Instructor(s)

Mary Anne Conforti

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Office Hrs.:

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Learning Resources**Required:**

XML Second Edition
Visual Quickstart Guide
Author: Kevin Howard Goldberg
ISBN: 978-0-321-55967-8

Recommended:

None.

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:
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**Schedule**

Week of/ Number	Outcome/Material Covered	Reference/ Reading	Assignment	Due Date
1, 2	Constructing an XML document	Unit 1	1	
3, 4	Transforming XML into XHTML using XSLT	Unit 2	2	
5, 6	Transforming XML into XHTML using XSLT and XPath	Units 3, 4	3	
7, 8, 9	Creating a DTD	Units 6, 7, 8	4	
10, 11, 12	Creating an XML Schema	Units 9, 10, 11	5	

* Marks may be deducted as a result of late submission of any assignment. Extenuating circumstances must be discussed with the instructor prior to the assignment due date.