School of Information Management

ELCM353 INTERNET DEVELOPMENT ENVIRONMENTS

Trimester One 2012

COURSE OUTLINE

Class Times and Room Numbers

Lecture: RHLT03 Tuesday 11:30 -12:20
Office Hours: Thursday & Friday 9am – 10am
Workshop: RWW415 https://signups.victoria.ac.nz

Names and Contact Details

Role	Name	Room	Tel.	E-mail
Course Coordinator	Dr Tiong T. Goh	RH403	4636860	Tiong.goh@vuw.ac.nz
Senior Tutor	Mr. Alex Zhang	RH502	4636998	Alex.Zhang@vuw.ac.nz

Assessment Requirements

Tasks	Learning Objectives	Due Date	Percentage
Assignment 1	LO1,2	27/4 11am	20
Class Test 1	LO1,2	3/5 evening	20
Assignment 2	LO1,2,3,4	5/6 11am	20
Class Test 2	LO1,2,3,4	7/6 evening	30
Workshop submission	LO1,2,3,4	Following Monday 11am	10
Total			**100**

Trimester Dates
Teaching Period: Monday 5 March – Friday 8 June

Examinations
There is no final exam.

Mandatory Course Requirements
To pass ELCM353, students must have:

1.   Attended at least 10 lectures.
2.   Attended at least 6 workshops.

Readings
The following textbook is required and can be purchased from Vic bookshop.

New Perspectives on XML, Second Edition, Comprehensive (9781418860646)
Patrick Carey ISBN 13: 978-1-4188-6064-6 © 2007

Course Content

The objective of the course is to introduce students to the development of advanced World Wide Web and Internet-based technologies. This course examines modern and emerging technologies to develop and deploy e-commerce applications, specifically based on the eXtensible Markup Language (XML).

Week No.	Date	Lecture	Workshop	Readings	Tests & Assignments
1	6/3	**Creating an XML Document**		T 1	
2	13/3	**Working with Namespaces**	Workshop 1 Developing an XML Document for the Jazz Warehouse	T2	
3	20/3	**Validating an XML Document working with DTD I**	Workshop 2 Combining XML Vocabularies in a Compound Document	T3	
4	27/3	**Validating an XML Document working with DTD II**	Workshop 3 Working with Document Type Definitions	T3	
5	3/4	**Working with Schemas I**		T4	
		BREAK			
6	24/4	**Working with Schemas II**		T4	Assignment 1 due
7	1/5	**Working with XSLT and XPath I**	Workshop 4 Validating Documents with XML Schema	T6	
	3/5				Class test #1
8	8/5	**Working with XSLT and XPath II**	Workshop 5 Transforming an XML Document	T6	
9	15/5	**Creating a Computational Style Sheet I**	Workshop 6 Working with Functions, Variables, and Parameters(I)	T7	
10	22/5	**Creating a Computational Style Sheet II**	Workshop 7 Working with Functions, Variables, and Parameters(II)	T8	
11	29/5	**Creating Element Groups**	Workshop 8 Working with IDs, Keys, and Groups	T10	
12	5/6	**Working with the Document Object Model**		Supp	Assignment 2 due
	7/6				Class test # 2

Course Learning Objectives

Learning objectives	By the end of this course, students should be able to:	Graduate Attributes	Major Attributes
LO1	read and manipulate XML content.	LG1 LG2 LG4 LG5	MA3 MA4
LO2	apply XML in a modern, complex web-based application.	LG1 LG2 LG5	MA3
LO3	use XML based tools.	LG1 LG4 LG5	MA3
LO4	compare and contrast technologies for the development of web-based applications.	LG1 LG5	MA6

Course Delivery

Students are expected to complete the assignments in order to understand the concepts and theories taught during lectures. Students should also prepare for the workshop and tutorial prior to their allocated time. Class test and workshop test will evaluate and assess your understanding about the theories, concepts and technologies learnt throughout the course.

Expected Workload

In terms of weekly course workload, expect to spend one hour in each lecture, two hours in each workshop, one hour in each tutorial and about seven to ten hours working on your own per week in preparation for lectures, workshops, tutorials, assignment, tests and project.

Materials and Equipment

Students are *expected to have the following* for each computer workshop:
- A computer account by the first week of the term
- A storage device to save all work
- Read the workshop requirement prior to their allocated workshop time

Withdrawal from Course

1. Your fees will be refunded if you withdraw from this course on or before Friday 16 March 2012.

2. The standard last date for withdrawal from this course is *Friday 18 May*. After this date, students forced to withdraw by circumstances beyond their control must apply for permission on an '*Application for Associate Dean's Permission to Withdraw Late*' including supporting documentation.

The application form is available from either of the Faculty's Student Customer Service Desks.

Quality Assurance Note

Your assessed work may also be used for quality assurance purposes, such as to assess the level of achievement of learning objectives as required for accreditation and audit purposes. The findings may be used to inform changes aimed at improving the quality of FCA programmes. All material used for such processes will be treated as confidential, and the outcome will not affect your grade for the course.

Practicum Arrangements

Workshop and tutorial slot will be available on the sign-up system:
https://signups.victoria.ac.nz
You must select only one time slot that fits your timetable.

Penalties

In fairness to other students, late work will incur a 10% penalty (of the value of the project/assignment) for each calendar day late. Work that is more than 3 days late will not be accepted without a granted extension. **Extensions to project/assignment deadlines are not ordinarily granted**. Discuss with the Course Coordinator any extraordinary personal circumstances which affect your ability to meet the deadline. You will be asked to verify your claim, e.g., produce medical certificates.

Class Representative

A class representative will be elected in the first class, and that person's name and contact details made available to VUWSA, the Course Coordinator and the class. The class representative provides a communication channel to liaise with the Course Coordinator on behalf of students.

Communication of Additional Information

All notices relating to this course will be posted on Blackboard.
www.blackboard.vuw.ac.nz

For the following important information follow the links provided:

Academic Integrity and Plagiarism
http://www.victoria.ac.nz/home/study/plagiarism.aspx

General University Policies and Statutes
Find key dates, explanations of grades and other useful information at
www.victoria.ac.nz/home/study

Find out about academic progress and restricted enrolment at
http://www.victoria.ac.nz/home/study/academic-progress.aspx

The University's statutes and policies are available at www.victoria.ac.nz/home/about/policy, except qualification statutes, which are available via the Calendar webpage at
http://www.victoria.ac.nz/home/study/calendar.aspx (See Section C).
Further information about the University's academic processes can be found on the website of the Assistant Vice-Chancellor (Academic) at
www.victoria.ac.nz/home/about_victoria/avcacademic/default.aspx

AVC (Academic) Website: information including: Conduct, Academic Grievances, Students with Impairments, Student Support
http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx

Faculty of Commerce and Administration Offices
http://www.victoria.ac.nz/fca/studenthelp/

Te Pūtahi Atawhai
Maori and Pacific Mentoring Programme
http://www.victoria.ac.nz/st_services/tpa/index.aspx

Assignment 1 Rubric – 20% contribution towards overall assessment		
Topic		*Marks*
Creating an XML Document	Correctly write and explain the issues and provide solution	20
Working with Namespaces	Correctly present an effective solution	20
Validating an XML Document working with DTD	Correctly identify and provide effective solution	30
Working with Schemas	Correctly generate the solution	30
	Total	100

Class Test 1 Rubric – 20% contribution towards overall assessment		
Topic		*Marks*
Creating an XML Document	Correctly write and explain the issues and provide solution	20
Working with Namespaces	Correctly present an effective solution	20
Validating an XML Document working with DTD	Correctly identify and provide effective solution	30
Working with Schemas	Correctly generate the solution	30
	Total	100

Assignment 2 Rubric – 20% towards overall assessment		
Aspect		*Marks*
Working with XSLT and XPath	Correctly write and explain the issues and provide solution	20
Creating a Computational Style Sheet	Correctly present an effective solution	30

Creating Element Groups	Correctly identify and provide effective solution	20
Working with the Document Object Model	Correctly generate an effective solution	20
Working with Schemas	Correctly write and explain the issues and provide solution	10
	Total	100

Class Test 2 Rubric – 30% contribution towards overall assessment		
Topic		*Marks*
Creating an XML Document	Correctly write and explain the issues and provide solution	10
Working with Namespaces	Correctly present an effective solution	10
Validating an XML Document working with DTD	Correctly identify and provide effective solution	10
Working with Schemas	Correctly generate the solution	10
Working with XSLT and XPath	Correctly write and explain the issues and provide solution	20
Creating a Computational Style Sheet	Correctly present an effective solution	20
Creating Element Groups	Correctly identify and provide effective solution	10
Working with the Document Object Model	Correctly generate an effective solution	10
	Total	100