TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI
VICTORIA
UNIVERSITY OF WELLINGTON

School of Information Management

INFO102 Business Application Programming

Trimester Two, 2014

COURSE OUTLINE

Lecture Time	Lecture Room
Monday 12.00pm – 12.50pm	New Kirk KKLT301
Tuesday 12.00pm – 12.50pm	New Kirk KKLT301

Course information

Credit Value: 15 points

Pre-requisite: None

Teaching Period: Monday 14th July – Friday 17th October 2014

Study/Examination Period: There is no final exam for INFO102

Assessments

The details of how assessments are marked are provided on the workshop exercise sheets and the assignment documents.

Item	Weight	Description	Objective(*)	Due
Workshops	20%	Best 5 Workshop exercises out of 6 (4% each)	2, 3, 4	Weekly in workshops
Assignment 1	15%	Interactive website prototype	2, 3	10pm, Friday 15 August 2014
Assignment 2	25%	Web application	1, 2, 3, 4	10pm, Monday 6 October 2014
Test 1	20%	Understanding C# & ASP.NET 1	1, 2, 3, 4	Week of 8 September 2014 *Duration: 1 hour (during workshop)*
Test 2	20%	Understanding C# and ASP.NET 2	1, 2, 3, 4	Week of 13 October 2014 *Duration: 1 hour (during workshop)*
TOTAL	**100%**			

(*) see Course Learning Objectives on Page 2

From Trimester 1, 2014, a revised Assessment Handbook will apply to all VUW courses:
See http://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf.
In particular, there will be a new grade scheme, in which the A+ range will be 90-100% and 50-54% will be a C-.

Mandatory Course Requirements

1. Attend workshops and obtain signoffs from at least 5 out of 6 scheduled workshop exercises;
2. Attempt and submit both assignments;
3. Attend all assignment demonstrations (scheduled during workshop sessions);
4. Sit and submit both tests held during workshop hours.

*N.B.: not adhering to **any** mandatory requirement without a genuine reason supported by written evidence means failing the course.*

If you cannot complete an assignment or sit a test or examination, refer to www.victoria.ac.nz/home/study/exams-and-assessments/aegrotat

Contact Details

	Staff	Room	Email & Telephone	Office Hours
Course Lecturer	Geetha Kanaparan	EA119	geetha.kanaparan@vuw.ac.nz 04 463 5504	Monday & Tuesday: 11.15 – 11.45am 1.00pm – 1.30pm Please email for appointment if other times preferred
Course Co-ordinator	Simon Park	RH531	simon.park@vuw.ac.nz 04 463 6950	Please email for appointment
Senior Tutor	Lucia Sohn	EA111	lucia.sohn@vuw.ac.nz 04 463 6659	Consultation times will be posted on Blackboard

Course Delivery

This course involves practical web application development. Learning material is delivered in:

1. Lectures
2. Workshops held in computer laboratories
3. The on-line learning support tool Blackboard. Materials posted on Blackboard are designed to supplement class attendance not as a substitute. You cannot count on Blackboard for a complete view of what is going on in the course.

Course Content

Please refer to Appendix 1 – Weekly Course Schedule (Appendix 1, page 7) for details.
Small adjustments to the following course content might be necessary.
Such changes will be posted on Blackboard.

Prescription

This course is an introduction to the fundamental concepts of programming for business application development. The course covers the program development life cycle: gathering requirements, designing a solution, implementing a solution in a programming language, and testing the completed application.

Course Learning Objectives

On completion of this course the student should be able to:

1. Perform requirements analysis for web application development
2. Understand the fundamental characteristics of visual application development platforms
3. Understand fundamental application development principles
4. Develop web applications using visual application development platforms

The Faculty learning objectives are included in these course objectives.

In addition, the following technical objectives will be met by the course and the students will be able to:

- *Understand basic programming concepts supported by a programming language*
- *Use a modern, object-oriented application development framework*
- *Understand the functionality provided by core libraries in a framework, with emphasis on user-interface and web elements*
- *Use fundamental programming constructs: assignment operations, conditional and iterative structures, and simple input/output operations*
- *Specify an appropriate data structure for solving a simple problem*

- *Use fundamental data structures: primitive data types, string, arrays, pointers*
- *Design, implement, test, and debug a program that uses fundamental data structures and fundamental programming constructs*

Expected Workload

This is a 15 point course and requires 150 hours or work. This includes lectures, workshops, preparatory work, and assignment work. Each week, students are expected to spend about:

- 2 hours in the lectures;
- 4 hours preparing for lectures; this includes 2 hours preparing for the tests;
- 3 hours preparing for the workshop;
- 2 hours in the workshop;
- 3 hours preparing for and working on the course assignments.

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.

WORKSHOP

Workshops

- Workshops provide the skills necessary to complete the assignments.
- All workshops are held in **MY201**.
- You are required to attend one scheduled 2-hour programming workshop each week.
- There is NO workshop in week 1. In week 1 you must sign up for a permanent workshop slot for the course (see below).
- The process for signing up to workshops and the assessment that takes place in the workshops is explained in the following sections.
- You must prepare for the workshop sessions before attending the workshops.

How to sign up for a workshop

- You must sign up for one weekly 2 hour workshop session by **5pm, Wednesday 16th July;**
- Sign-up will open on **Monday, 14th July at 1:30pm** (after the first lecture).
- Use the S-Cubed system to sign up to workshops. Instructions on how to use this system are provided on the course Blackboard site under Course Information.
- S-Cubed is available at https://signups.victoria.ac.nz/

Once you sign up to a workshop session you must attend that scheduled session each week. If you miss your first workshop in Week 2 because you were late to sign up or you didn't write down the correct time and place, that is your responsibility.

Workshop sign-off

- When you complete a workshop exercise a tutor assesses your work and records a mark for your work. This is called a sign-off.
  Note: There will be no signoff for Workshop 1 (see Appendix 1).
- Workshop exercises are made available on the Monday before the workshop sessions. This is to give you time to begin preparatory work such as reading, program design, and working on your program.
- The workshop session is for completing the exercise, asking questions on problem areas, and achieving signoff.
- On certain weeks, the workshop session will be used for assignment demonstrations, and tests (see Appendix 1)

Workshop changing is not permitted
If you need to temporarily change to another workshop due to circumstances outside your control (such as sickness, attending a family member's funeral, representing NZ in a sporting event, etc.) you must first obtain permission from the Senior Tutor or Course Coordinator in advance of your absence.

You must provide valid reasons (e.g. a doctor's appointment) and official documents to support your application (e.g. a medical certificate or a certificate from the Student Counselling Service). The Senior Tutor will provide you with a signed change form for the replacement workshop. You must present this signed change form to the workshop Tutor at the beginning of the workshop before you can receive a signoff.

N.B.: If you miss workshops without permission or without written evidence for the absence you will NOT get another workshop allocation and you might fail the course (see Mandatory Course Requirements above).

READINGS
The prescribed texts for this course are training and reference guides to the C# language and to the ASP.NET framework (both are for the 2012 versions that we use in the lab).

The books are:

1. **Murach's C# 2012** by Joel Murach and Anne Boehm
   26 chapters, 850 pages, 372 illustrations
   Published May 2013 ISBN 978-1-890774-72-1
   Book (paperback) price: USD38.15
   eBook price: USD31.15 *(Recommended)*
   Book + eBook: USD45.15

2. **Murach's ASP.NET 4.5 Web Programming with C# 2012** by Mary Delamater and Anne Boehm
   24 chapters, 822 pages, 358 illustrations
   Published August 2013 ISBN: 978-1-890774-75-2
   Book (paperback) price: USD40.25
   eBook price: USD33.25 *(Recommended)*
   Book + eBook: USD47.25

Both books are available from publishing house **Murach** direct (go to http://www.murach.com/books/index.htm for additional information and free chapter downloads).

The paperbacks may also be bought (slightly cheaper) from Amazon (new and used). However, the freight for a single paperback (weighing in at 1.75kg!) from the US is about NZD42 and for both NZD59 (using NZ Post's YouShop facility in the US) on a 10-20 day delivery (there are no customs charges).

For this reason the acquisition of eBooks directly from Murach – delivery is instantaneous and this option comes with a saving of 50% - is the recommended mode of purchase.

As a backup there will be four copies of the paperbacks on short loan in the Kelburn library and selected chapters may be posted on Blackboard.

The **Microsoft Beginner Developer Learning Center** (BDLC) website has web development learning resources at http://msdn.microsoft.com/en-us/beginner/default.aspx

Penalties
In fairness to other students, if your work is submitted after the deadline and without an extension granted or without a serious excuse supported by medical certificate* or other official documentation, you will incur a 10% penalty for each actual day (prior to 4.00pm) late and *after 3 working days (by 4pm) we will NOT accept the late submission*. Late or extended assignments are submitted to the Senior Tutor directly via email (lucia.sohn@vuw.ac.nz).

Late assignments and assignment demonstrations:
You will need to arrange a separate demo with the lecturer if your submission is late or extended. Please do NOT attend a demo session BEFORE you have actually submitted your assignment.

> *You must verify your claim, e.g. produce a medical certificate. By submitting evidentiary document to support your claim, you consent for the Course Co-ordinator to verify the authenticity of such documents by contacting the relevant parties. Extensions will only be granted under these conditions. You must also apply for extensions before the due date unless there is an exceptional circumstance warranting the relaxation of this rule.

In the event of bereavement or a prolonged illness affecting your ability to meet a certain deadline, discuss your situation with the Course Co-ordinator as soon as possible.

Plagiarism
Plagiarism - using other's work in application development
Application development is a mix of individual creativity with collaborative information sharing. You are encouraged to use on-line resources to help you learn and develop your applications. However, when you include other's work within your own work (e.g. a piece of code provided by an on-line user group) you must acknowledge the source you used. You can place that acknowledgement in a comment within your code. If you do not acknowledge the contribution of others to your work then you have plagiarised that work and will be penalised according to the University Statute on student conduct.

Group Work
There is NO group work in this course. Although you are encouraged to discuss and share aspects of assigned work with others, when you develop your solution and write your assignment, however, the words, diagrams and code you use MUST be entirely your own work. Please also read the advice in the section above on *Plagiarism - using other's work in application development.*
Markers are instructed to check for signs of plagiarism and joint efforts.

Remarking Policy
You can request a remark if you have concerns regarding the marking of your assignments. However you will need to make a request within 5 working days (by 4pm) after the marks are made available.
To apply for a remark, you need to complete the *Request for Re-examination* form (available on Blackboard) and submit the form to the Senior Tutor. Remember, as a result of the remark your score may go up OR down. The maximum number of remarking for each student is one for the entire course.

Materials and Equipment
Students use the computer labs provided by School of Information Management (SIM) for this course. The computer labs are open from 8am to 8pm each day every day, and are accessible by swipe card if you are enrolled in INFO102. The software you need to complete workshops and assignments is provided on these machines. However, if you want to work on your own computer

you will be able to install free versions of Visual Web Developer Express. Details about this are provided on Blackboard.

NOTE: VUW cannot support your personal computer or any course related software installed on it even if it is supplied by VUW. If you do work on your own computer you MUST test your work on SIM's lab computers before submitting your assignments. In addition, Visual Web Developer Express is a Microsoft product and may require additional software to operate successfully on computers with non-Microsoft operating systems.

Scaling
To obtain a fair and consistent distribution of marks relative to assessment difficulty, scaling of marks may be employed for some or all assessments

Communication of Additional Information
Any additional information or information on changes to the course will be conveyed to students by Blackboard and, if necessary by email to all class members. Therefore, you should check Blackboard and your designated email address frequently.

Withdrawal from Course
Your fees will be refunded if you withdraw from this course on or before Friday 25th July, 2014. The standard last date for withdrawal from this course is Friday 26th September, 2014. 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* form, including supporting documentation. The application form is available from either of the Faculty's Student Customer Service Desks.

Student Feedback
Student feedback on University courses may be found at
www.cad.vuw.ac.nz/feedback/feedback_display.php

Link to General Information
For general information about course-related matters, go to
http://www.victoria.ac.nz/vbs/studenthelp/general-course-information

Note to Students
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 academic audit. The findings may be used to inform changes aimed at improving the quality of VBS programmes. All material used for such processes will be treated as confidential, and the outcome will not affect your grade for the course.

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Weekly Course Schedule (Appendix 1)

This schedule may be adjusted as the course progresses to allow for visiting speakers, additional topics, or revision sessions.

Week	Week beginning	Day	Lecture / Workshop	Topic	Assessment Due
1	14 July	Monday 12 – 12.50pm	Lecture 1	Introduction to Course	
		Tuesday 12 – 12.50pm	Lecture 2	Web architecture	
		No workshop – sign up for workshop by Wednesday 5.00pm			
2	21 July	Monday 12 – 12.50pm	Lecture 3	Web site fundamentals	
		Tuesday 12 – 12.50pm	Lecture 4	Web site fundamentals	
			*Workshop **1***	*Your first website*	*No signoff*
3	28 July	Monday 12 – 12.50pm	Lecture 5	Variables, constants, and calculations	
		Tuesday 12 – 12.50pm	Lecture 6	Variables, constants, and calculations	
			*Workshop **2***	*Using calculations*	*Signoff 1*
4	4 August	Monday 12 – 12.50pm	Lecture 7	Decision structures & event handling	
		Tuesday 12 – 12.50pm	Lecture 8	Decision structures & event handling	
			*Workshop **3***	*Using decision structures*	*Signoff 2*
5	11 August	Monday 12 – 12.50pm	Lecture 9	Multi-pages, hyperlinks, passing values	
		Tuesday 12 – 12.50pm	Lecture 10	Debugging and exception handling	***Assignment 1 – 15 August by 10pm***
			*Workshop **4***	*Using hyperlinks & passing values*	*Signoff 3*
6	18 August	Monday 12 – 12.50pm	Lecture 11	CSS	
		Tuesday 12 – 12.50pm	Lecture 12	Analysis and Design Methods	
		Assignment 1 Demonstrations			*Please see Blackboard for time of demo*
Mid-Term Break (23 August – 7 September)					
7	8 September	Monday 12 – 12.50pm	Lecture 13	Preparing for the test	*Take Test 1 during workshop hour*
		Tuesday 12 – 12.50pm	Lecture 14	Classes, objects, and methods	
		TEST 1			
8	15 September	Monday 12 – 12.50pm	Lecture 15	Classes, objects, and methods	
		Tuesday 12 – 12.50pm	Lecture 16	Algorithms, and logic depiction	
			*Workshop **5***	*Using methods*	*Signoff 4*
9	22 September	Monday 12 – 12.50pm	Lecture 17	Iteration	
		Tuesday 12 – 12.50pm	Lecture 18	Iteration	
			*Workshop **6***	*Using loops*	*Signoff 5*
10	29 September	Monday 12 – 12.50pm	Lecture 19	Arrays	
		Tuesday 12 – 12.50pm	Lecture 20	Arrays	
			*Workshop **7***	*Using arrays*	*Signoff 6*
11	6 October	Monday 12 – 12.50pm	Lecture 21	Handling data	***Assignment 2 – 6 October by 10pm***
		Tuesday 12 – 12.50pm	Lecture 22	Handling data	
		Assignment 2 Demonstrations			*Please see Blackboard for time of demo*
12	13 October	Monday 12 – 12.50pm	Lecture 23	Review of the Course	*Take Test 2 during workshop hour*
		Tuesday 12 – 12.50pm	Lecture 24	Current Professional Practice	
		TEST 2			