

School of Information Management

INFO 102 BUSINESS APPLICATION PROGRAMMING

Trimester One 2012

COURSE OUTLINE

Lecture Time	Lecture Theatre
Monday & Tuesday 9 - 9.50am	HULT 323

Mandatory course requirements

To pass this course, you must attend at least five marked workshops and have your work signed off.

Assessment requirements

Assessment	Topic	Contribution	Learning Objectives	Due Date
Workshops	Workshop exercises (best 5)	30%	1, 2, 3	Weekly
Assignment 1	C#/ASP.NET fundamentals, decision structures	20%	1, 2	Wed. 4 April 7pm
Assignment 2	C#/ASP.NET fundamentals, decision structures, multiple-page websites, CSS	25%	1, 2	Wed. 9 May 7pm
Assignment 3	Methods, arrays and iteration, file I/O	25%	1, 2, 3	Wed. 6 June 7pm
Total		100%		

Expected workload

You are expected to spend about 12 hours per week to study INFO102. This includes lectures, reading materials, preparing for and attending workshops, assignment work, and time spent researching and practicing your programming skills.

During a teaching week you are expected to spend 2 hours reading lecture materials for each of the two weekly lectures and 2 hours preparing for the workshop. For each assignment you are expected to spend 15 to 20 hours.

Contact Details

Staff	Room	Email	Office Hours
Course Coordinator and Lecturer	Kevin Carillo	EA103 kevin.carillo@vuw.ac.nz	Monday & Tuesday 10-11am
Senior Tutor	Helen Liu	EA116 helen.liu@vuw.ac.nz	Monday to Friday 10am – 4pm

Course Information

Credit Value: 15 points
Prerequisites: None
Teaching Period: Monday 5 March – Friday 8 June

Course content

This course provides an introduction to the fundamental concepts of programming for business application development with an emphasis on ASP.NET website design. The course covers basic aspects of web development as well as core programming concepts. The programming language used is C# 2010.

Course Delivery

This course involves the practical application of computer programming and learning material for this course is provided using:

1. Lectures
2. Workshops held in computer laboratories
3. The online learning support tool Blackboard

Lectures provide theory and demonstrate the concepts needed to cover the course objectives. Workshops provide material that extends the lectures and are designed to give you the experience needed to complete the practical assignments. Therefore attendance at the lectures and workshops is crucial for your success in the course. Blackboard will be used to support the course in a number of ways.

Course learning objectives

By the end of this course the student should be able to:

Objective	On completion of this course, students will be able to:	Graduate Attributes	Major Attributes
1	Perform requirements analysis for business systems	LG1, LG2	MA1, MA3, MA5
2	Develop data models using tools such as entity models	LG1, LG2	MA3, MA5
3	Develop process models using tools such as data flow diagrams	LG1, LG2	MA3, MA5
4	Understand and apply object oriented programming using C# as their programming platform.	LG1	MA3, MA5

Appendix 1 – Weekly schedule

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

Week	Beginning Date	Day	Lecture Workshop	Topic	Assignment due date
1	5-Mar	Monday 9 - 9.50 am	Lec 1	Introduction to course	
		Tuesday 9 - 9.50 am	Lec 2	Introduction to Web development, .NET, ASP.NET	
		No Workshop			
2	12-Mar	Monday 9 - 9.50 am	Lec 3	C# and Integrated Development Interface	
		Tuesday 9 - 9.50 am	Lec 4	Identifiers	
		Wks 1 - no signoff		Creating your first website	
3	19-Mar	Monday 9 - 9.50 am	Lec 5	Calculations	
		Tuesday 9 - 9.50 am	Lec 6	Algorithms and logic depiction	
		Wks 2 – signoff 1		Using variables, constants, and calculations	
4	26-Mar	Monday 9 - 9.50 am	Lec 7	Decision structures	
		Tuesday 9 - 9.50 am	Lec 8	Event handling	
		Wks 3 – signoff 2		Using decision structures	
5	2-Apr	Monday 9 - 9.50 am	Lec 9	Debugging & Exception handling	1 Wed 4 Apr 7pm
		Tuesday 9 - 9.50 am	Lec 10	Webpages, hyperlinks, and passing values	
		Assignment 1 - Student demo			
Friday 6 Apr– Sunday 22 Apr: Mid trimester break					
6	23-Apr	Monday 9 - 9.50 am	Lec 11	Web design	
		Tuesday 9 - 9.50 am	Lec 12	Cascading Style Sheets	
		Wks 4 – signoff 3		Creating multiple-page websites	
7	30-Apr	Monday 9 - 9.50 am	Lec 13	Defining and using CSS files, master pages	
		Tuesday 9 - 9.50 am	Lec 14	Methods and Parameters 1	
		Wks 5 – signoff 4		Using CSS stylesheets and master files	

8	<i>7-May</i>	Monday 9 - 9.50 am	Lec 15	Methods and Parameters 2	2 Wed 9 May 7pm
		Tuesday 9 - 9.50 am	Lec 16	Iteration 1	
		Assignment 2 - Student demo			
9	<i>14-May</i>	Monday 9 - 9.50 am	Lec 17	Iteration 2	
		Tuesday 9 - 9.50 am	Lec 18	Arrays 1	
		Wks 6 – signoff 5		Using methods and parameters	
10	<i>21-May</i>	Monday 9 - 9.50 am	Lec 19	Arrays 2	
		Tuesday 9 - 9.50 am	Lec 20	Open source software and web development	
		Wks 7 – signoff 6		Using loops and arrays	
11	<i>27-May</i>	Monday 9 - 9.50 am	Lec 21	Data Files – File I/O	
		Tuesday 9 - 9.50 am	Lec 22	Business objects	
		Wks 8 – signoff 7		Using Data files	
12	<i>4-Jun</i>	Monday 9 - 9.50 am	No Lecture		3 Wed 6 Jun 7pm
		Tuesday 9 - 9.50 am	Lec 23	Business systems analysis	
		Assignment 3 - Student demo			

Appendix 2 – Additional Information

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 18 May 2012. 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.

Blackboard

This course relies on the active participation of students in Blackboard. Students are strongly encouraged to post and/or answer questions in the forums, participate in the course chat sessions, and also contribute to the course wiki. Additionally, Blackboard is used as a repository for course materials such as lecture notes and workshop materials. All class announcements are also posted on the course Blackboard site. Because Blackboard is very important resource centre for this course it is important that you *check Blackboard every day*.

Lecture notes will usually be provided on Blackboard but there may also be additional explanatory material provided in the lectures that is not on Blackboard. Therefore the notes on Blackboard are not a substitute for attending lectures.

The INFO102 Blackboard website can be accessed at: <http://blackboard.vuw.ac.nz>

Materials and equipment

There is no requirement for equipment for this course. The workshops are open from 8am to 8pm each day every day, and are accessible by swipe card if you are enrolled in School of Information Management courses. 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 (2010 versions only). Details about this will be provided on Blackboard.

Note that the University cannot support your personal computer or any course related software installed on it even if it is supplied by the School. If you do work on your own computer you MUST test their work on the SIM laboratory 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.

Recommended resources

- The Microsoft Beginner Developer Learning Center (BDLC) website has .NET and C# learning resources at: <http://msdn.microsoft.com/en-us/beginner/default.aspx>. This resource has sections you can study that complement the lecture topics.
- A lot of additional resources will be provided during each week throughout the trimester.
- There are a number of books on C# in the library, however many of them are not suitable for this course, although they may be helpful for individual topics. The following books covers many of the topics covered in this course:
 - Beginning ASP.NET 3.5 in C# 2008 From Novice to Professional by Matthew MacDonald (online edition)
 - Illustrated C# 2008 by Daniel Solis (online edition)
 - Accelerated C# 2008 by Trey Nash (online edition)
 - Beginning C# 2008 From Novice to Professional by Christian Gross (online edition)

Extensions

Extensions must be sought from the Course Coordinator prior to the deadline for assessments. Extensions cannot be granted for workload reasons. You must verify your claim, that is, you must provide documents to support your application, such as a Medical Certificate. Your application may be verified by the Course Coordinator with any external parties.

In the event of bereavement or prolonged illness affecting your ability to meet the deadline, please discuss your situation with the Course Coordinator as early as possible.

Please note that certificates from the Student Counselling Service will be accepted as documentary evidence to support an extension.

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 day that the work is late, weekends included. This is calculated based on the marks you achieved for the assignment. Penalties accrue each day after the initial time of the assignment submission deadline.

Workshop hopping is NOT permitted

Workshops

You will attend a 2 hour workshop each week where you work on a programming exercise. These exercises are primarily designed to give you the skills to complete your assignments. Workshop exercises are worth 30% of the total course mark. When you have completed the workshop exercise a tutor will review your work, give you a mark, and record a sign-off. Once you have completed the workshop exercise you can then work on your C# assignments. Please follow the workshop signup instructions given below.

Workshop exercises are made available on the Monday of the week before they must be signed off. This is so that some preparatory work can begin (i.e. website creation and basic layout). After workshop 1, you are expected to begin working on the workshop exercises in your own time before the scheduled workshop time. The workshop session is for completing the exercise, having questions addressed, and achieving signoff.

**Only the best five sign-offs will be considered in the overall workshop mark.
There will be no signoff for the first workshop.**

Quality assurance

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.

Scaling

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

Special Notes

- **Books** – for this introductory level course, books on C# 2008 are also suitable for learning C# 2010.
- **Software** - do not write the code for the workshop exercises or the assignments using C# 2005 or 2008, you must use C# 2010. Submissions in 2005 or 2008 format will not be marked.
- **No extension is possible based on a student's workload.** You are expected to manage your workload to ensure there is sufficient time to complete assessments as required.
- **You are expected to back up your work** – From time to time files are lost, computers crash, etc., so it is critical that you get into the habit of backing up important files (e.g. on CD, DVD, pen drive, or other external media). Extensions will **not** be granted due to files lost and not backed up!
- **Do not leave submitting your work to the last minute** – technology problems do occur (especially on the day an assignment is due). Printers may be overloaded, servers may be slow, etc. Be smart and submit your work in plenty of time. Extensions will **not** be granted due to problems with submitting work.
- **Be careful to submit your assignment according to instructions given.** If your work is submitted using a method that has not been specified, it will **not** be marked.
- **Working together** – You are encouraged to discuss aspects of assignment work with others. However, when it is time to develop your solution and write your assignment, the words, diagrams and code you use must be ENTIRELY your own. Markers have been instructed to check for signs of plagiarism and joint efforts.
- **Using other's work in programming** – You are encouraged to use on-line resources to help you learn. However when you include other's work within your own work (e.g. method 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, discussed below. You are not required to cite algorithms, data structures, or source code from lecture notes or the recommended text. Note that in this course it is expected that, in general, you will complete the work without recourse to other's code.

Signing up for your workshop / tutorial

You are required to sign up for, and attend, one workshop per week. Workshops last for two hours. Please check the timetable on page 2 for the workshop and tutorial schedule. All workshops are held in MY201. Your tutorial room will be allocated and announced on Blackboard once the workshop sign up is complete. Your allocated tutorial will be scheduled at the same time slot as your workshop.

Workshops start in Week 2. Therefore you need to sign up for a workshop/tutorial session by 5pm, Friday 9 March (Week 1). The workshop signup system is called S-cubed. Instructions for using S-cubed are available on Blackboard. S-cubed is available at: <https://signups.victoria.ac.nz/>

Workshop and tutorial hopping is not allowed

If you need to temporarily change to another workshop, please print and fill out the Workshop Change Form (can be found on Blackboard). Please note:

1. You must provide valid reasons (i.e. a doctor's appointment) and provide documents to support your application (i.e. medical certificate).
2. The form must be signed by the course coordinator. You will only be signed off from the replacement workshop or tutorial if you show the class tutor the signed change form at the beginning of the workshop or tutorial.

Faculty of Commerce and Administration offices

Railway West Wing (RWW) - FCA Student Administration office

The ground floor counter at Rutherford House is the first point of contact for general enquiries and FCA forms. Student Administration Advisers are available to discuss course status and give further advice about FCA qualifications.

Easterfield (EA) - FCA Kelburn office

Faculty of Commerce & Administration is located at EA 121, Easterfield Building EA121. The following services are offered:

- Duty tutors for student contact and advice
- Information concerning administrative and academic matters
- FCA Student Administration forms (e.g. application for academic transcripts, requests for degree audit, COP requests)
- Examinations-related information during the examination period

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 formal notices relating to this course will be posted on the Blackboard website.

To ensure that individuals and the whole class can be contacted speedily please check that we have your correct email address or addresses on the Student Records system. This can be checked and updated using the myVictoria web portal (My Study tab, Personal Information section, Update Email Addresses).

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/avcadademic/default.aspx

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