TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI

VICTORIA
UNIVERSITY OF WELLINGTON

School of Information Management

INFO102 Information Systems Development

Trimester Two 2009

COURSE OUTLINE

Course Information

Point Value:	15 points
Co-requisite:	INFO101
Restrictions:	INFO212 (prior to 2005)

Contact Details

	Staff	Room	Email & Telephone	Office Hours
Course Co-ordinator & Lecturer	David Johnstone	EA218	David.johnstone@vuw.ac.nz Ph. 463-5877	Tues and Wed, 11am – 12noon Or by appointment
Course Lecturer	Diane Strode	EA207	Diane.strode@vuw.ac.nz Ph. 463-5504	Tues and Wed, 11am – 12noon Or by appointment
Senior Tutor	Monica Lincoln	EA110	Monica.lincoln@vuw.ac.nz Ph: 463-6659	

Trimester Dates

Teaching Period:	Monday 13 July – Friday 16 October 2009
End of Year Study Period:	Monday 19 October – Monday 26 October 2009
Examination Period:	Tuesday 27 October – Saturday 14 November 2009
Withdrawal Dates:	Information available via:

http://www.victoria.ac.nz/home/admisenrol/payments/withdrawlsrefunds.aspx

Class Times and Room Numbers

Lectures:	Tuesday	10:00 – 10:50am at MCLT103, and
	Wednesday	10:00 – 10:50am at HMLT206
Tutorials/Workshops:	See **Tutorial/Workshop Signup Instructions Sheet** available on Blackboard.	

Course Schedule & Content

INFO 102 – Lectures, Tutorials & Workshops			2009 / 2
Date	**Topic**	**Recommended readings**	**Assessment Due**
WEEK 1			
Tue 14 July	Introduction to course An introduction to IS development	(DWR – Ch 1)	**Sign up for tutorials & workshops. Ensure working email/lab accounts.**
Wed 15 July	Requirements determination	(DWR – Ch 4)	
TUTORIAL	**NO TUTORIAL**		
WEEK 2			
Tue 21 July	Data modelling (ERDs-1)	(DWR – Ch 7)	
Wed 22 July	Data modelling (ERDs-2)		
TUTORIAL	**Tutorial 1: Data modelling exercises**		
WEEK 3			
Tue 28 July	Data modelling (normalisation-1)	(DWR – Ch 7)	**Lunch2U: Ex.1 Submission** Due by Sun 26 July, 12 noon
Wed 29 July	Data modelling (normalisation-2)		
TUTORIAL	**Tutorial 2: Data modelling exercises**		
WEEK 4			
Tue 4 Aug	********** **TEST 1** **********		**Lunch2U: Ex.2 Submission** Due by Sun 2 Aug, 12 noon
Wed 5 Aug	Use case analysis	(DWR – Ch 5)	
TUTORIAL	**Tutorial 3: Use Case Analysis**		
WEEK 5			
Tue 11 Aug	Process modelling (DFDs-1)	(DWR – Ch 6)	**Lunch2U: Ex.3 Submission** Due by Sun 9 Aug, 12 noon
Wed 12 Aug	Process modelling (DFDs-2)		
TUTORIAL	**Tutorial 4: Process modelling exercises**		
WEEK 6			
Tue 18 Aug	Process modelling (DFDs-3)		**Lunch2U: Ex4 Submission** Due by Sun 16 Aug, 12 noon
Wed 19 Aug	********** **TEST 2** **********		
TUTORIAL	**NO TUTORIAL**		
* * * * * Mid-Trimester Break – 18 Aug ~ 29 Aug 2008* * * * *			
WEEK 7			
Tues 8 Sept	Introduction to Visual Studio.Net and C#	Murach's Chap 1 p14-26	**Exercise 1 Signoff**
Wed 9 Sept	Variables, data types, operators and expressions	Murach's Chap 2 p90-116	
WORKSHOP 1	**Introduction to Visual Studio.Net and C#. Using variables, types, operators, expressions**		
WEEK 8			
Tues 15 Sept	Classes, Objects, Methods	Murach's Chap 3	**Exercise 2 Signoff**
Wed 16 Sept	Decision structures	Murach's Chap 4 p90-115	
WORKSHOP 2	**Using decision structures**		
WEEK 9			
Tues 22 Sept	Loops 1	Murach's Chap 5	**Exercise 3 Signoff**
Wed 23 Sept	Loops 2	Murach's Chap 6 p154-156, p160	**Assignment 1** Due Sunday 21 Sept, 12 noon
WORKSHOP 3	**Using iteration**		
WEEK 10			
Tues 29 Sept	Arrays	Murach's Chap 8 p204-210, p226-233	**Exercise 4 Signoff**
Wed 30 Sept	Collections	Murach's Chap 11 p312-318	
WORKSHOP 4	**Using arrays and collections**		
WEEK 11			
Tues 6 Oct	Exceptions	Murach's Chap 7 p176-181	**Exercise 5 Signoff**
Wed 7 Oct	Object orientation / .Net framework / Libraries	Murach's Chap 9, 10: dates, strings, controls	
WORKSHOP 5	**Implementing error handling**		
WEEK 12			
Tues 13 Oct	End of course review & exam preparation		**Assignment 2** Due Sunday 11 Oct, 12 noon
Wed 14 Oct	Revision session / Further study		
WORKSHOP 6	**Assignment work**		

Course Learning Objectives

By the end of this course, students should be able to:
1. Perform requirements analysis for business systems;
2. Develop data models using tools such as entity models;
3. Develop process models using tools such as data flow diagrams; and
4. Understand and apply object-oriented programming using C# as their programming platform.

Course Delivery

Learning materials for this course are delivered in two complementary ways: through (i) lectures, tutorials, and workshops; and (ii) resources on the (Blackboard) website. Each method is both important and necessary to achieve the course objectives.

The course is focused on practical applications of system development methods. For this reason, students are expected to attend tutorials (first half of the course) and computer workshops (second half of the course) to practice the methods covered in lectures.

Expected Workload: Overall, a student can expect to spend a total of 150 hours to complete the course. The course spans 15 weeks – including 12 teaching weeks, a mid-trimester break, study week and the examination period). A teaching week will typically include: two 1-hour lectures, and one 2-hour tutorial (first half of course) or computer workshop (second half of course). Preparing for tests, assignments, tutorials and computer workshops will, on average, require approximately seven further hours per teaching week. Finally, a student could expect to spend 16 hours preparing for the final 2-hour examination.

Use of Blackboard

Course Material: All course material and announcements will be published on Blackboard on a regular basis. Students are expected to download these materials from Blackboard.

Announcements: The announcements page for the course will be used to distribute course announcements. Students are expected to check the announcements on a regular basis (at least twice a week). The INFO102 website can be accessed at: http://blackboard.vuw.ac.nz

Discussion Board: Moderated discussion forums will be provided for general discussion, tutorials, and assignment work. Staff members will attempt to answer all reasonable questions. If a particular question has not been answered clearly on the discussion board, please make an appointment with either the lecturers or tutors, for further explanation.

Weekly Exercise Submission: Over the first half of the course, students will complete and submit four sets of exercises (one per week) for grading. These are to be submitted through Blackboard's file submission system. Details on the submission process will be provided early in the course.

Recommended Readings

There are no set textbooks for this course. However, the following are recommended for further help in both understanding and applying the application methods.

Dennis, Wixom & Roth (2006). Systems Analysis & Design. Wiley. 3ed.

> This book covers the material from the first half of the course. It is available from Victoria Books. There are also copies available on closed reserve in the Central Library. Chapter readings from this book are provided in the course schedule above (as "DWR" in the third column), should students wish to target specific areas where they would like help.

Murach, J. (2006). Murach's C# 2005. Mike Murach and Associates.

> This book is recommended for the second half of the course and is available on 3 day loan from the Central Library. Further books on introductory C# are also available on 3 day loan. Please note that for this introductory level course, books on C# 2005 are also suitable for learning C# 2008.

C# for Sharp Kids

> This book, and its associated sample C# code, is available on the Virtual Machines in MY201 Labs. A copy of the book is also available on Blackboard.

Assessment Details

Course assessment will be based on the following:

Objectives			Due Date
1, 2	**Test 1** (Data Modelling)	**13%**	Tuesday, 4 Aug, 10:00 – 10:50am in class
1, 3	**Test 2** (Process Modelling)	**13%**	Wednesday, 19 Aug, 10:00 – 10:50am in class
1, 2, 3	**Tutorial submissions**	**4%**	see Course schedule (p2)
4	**Assignment 1**(C# Programming)	**10%**	see Course schedule (p2)
4	**Assignment 2**(C# Programming)	**20%**	see Course schedule (p2)
1 - 4	**Examination**	**40%**	TBA
	TOTAL	*100%*	

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.

Mandatory Course Requirements

To pass this course, students must, in addition to getting a course mark of 50% or more,

> 1. **Attend at least three out of four designated tutorials;**
>
> 2. **Obtain four out of five workshop exercise signoffs; and**
>
> 3. **Attain at least 40% in the final exam.**

> *Please note: To pass INFO102 you must attend three designated tutorials, and obtain four workshop exercise signoffs. Do not take chances by missing sessions unnecessarily – you may later become ill or be otherwise forced to miss some tutorials/workshop signoffs, and then find that you have not accumulated enough tutorial attendance/workshop signoffs.*

Tutorials and Workshops

Students are required to register for **one** 2 hour tutorial/workshop. Tutorials will run for the first half of the course. Tutorials will then be converted into computer workshops in the last half of the course. During the conversion, the tutorial times will remain the same, but the workshops will be held in MY201.

You **must** attend your allocated tutorials and workshops. If you wish to switch tutorial or workshop groups, you must seek prior permission from the Senior Tutor (refer to 'Tutorial/Workshop hopping is not permitted' further down this page).

Tutorials: Until the mid-term break, students are required to upload their weekly submission (based on the Lunch2U exercises) to the tutors by the following Sunday (12 noon). This will give tutors a chance to grade them before your next tutorial. Each submission is worth 1% of your final grade. Submissions are made through Blackboard.

Workshops: After the mid-term break you will need to attend a 2 hour C# workshop each week. During the first 30 minutes of the workshop the tutors will review important programming concepts and explain the workshop exercise. Workshop exercises are primarily designed to give you the skills to complete your assignments.

When you have completed the workshop exercise a tutor will review your work and record a sign-off. To pass the course you need to have four out of five exercises signed-off. Once you have completed the workshop exercise you can then work on your C# assignments.

Tutorial/Workshop hopping is not permitted:

Tutorial/Workshop hopping is not allowed. If you need to temporarily change to a different tutorial/workshop, please print and fill out the *Tutorial/Workshop Change Form* (this can be found under the Course Information tag on Blackboard). Please note, you must provide valid reasons (e.g. a medical appointment) and provide documents to support your application (i.e. medical certificate). You are not permitted to use the form more than twice during the course.

> **This form must be signed by the Senior Tutor or Course Co-ordinator. You will only be signed off from the replacement workshop or get attendance from the replacement tutorial if you show the tutor of the class the signed change form at the beginning of the tutorial.**

Examination

The final examination for this course will be scheduled at some time during the period from Tuesday 27 October to Saturday 14 November 2009. This will be a 2 hour exam, with more information about this provided closer to the time.

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.

Penalties

In fairness to other students, assignment work submitted after the deadline will incur a 10% penalty (of the marks achieved for the project) for each working day (prior to 1:00 pm) late. In the event of bereavement or prolonged illness affecting your ability to meet the deadline, discuss your situation with the Course Coordinator. You must verify your claim, e.g., produce a medical certificate. By doing so, you agree to verification of documentation. ***Please note: Certificates from the Student Counselling Service are no longer accepted as documentary evidence to support an extension.**

Extension

Extensions must be sought **prior** to the deadline from the Course Coordinator. You must provide documents to support your application for extension, such as a Medical Certificate. The Course Coordinator reserves the right and you consent to the verification of your documents with third parties.

Important Notes:

- ***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 (on floppy/CD disk or flash drive, for example). 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 it 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 it is placed in the wrong box, or 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 & write your assignment, **the words and diagrams you use must be ENTIRELY your own**. In this way, we will have your perspective on the topic - **not** someone else's! 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 you will complete the work without recourse to other's code.*

Communication of Additional Information

All formal notices relating to this course will be posted on the Blackboard website – you are expected to log on and check for announcements on a regular basis, at least two or three times a week. Final grades will be posted on the Information Systems noticeboard located on the ground floor of the Easterfield Building, opposite the lifts (elevators).

Faculty of Commerce and Administration Offices

The FCA Student Administration Office can be found in the Railway Station (Railway West Wing). There is also an FCA student office on the Kelburn campus, on the ground floor of the Easterfield Building. More information on services, hours of opening, etc can be found through the link:
http://www.victoria.ac.nz/fca/studenthelp/Contactus.aspx

General University Policies and Statutes

Students should familiarise themselves with the University's policies and statutes, particularly those regarding assessment, course of study requirements, and formal academic grievance procedures. The Victoria University of Wellington academic regulations govern entrance, enrolment, graduation, teaching and learning, postgraduate study and changes to courses and programmes of study. These can be found through the link:
http://www.victoria.ac.nz/home/about/policy/academic.aspx

Student Conduct and Staff Conduct

The Statute on Student Conduct together with the Policy on Staff Conduct ensure that members of the University community are able to work, learn, study and participate in the academic and social aspects of the University's life in an atmosphere of safety and respect. The Statute on Student Conduct contains information on what conduct is prohibited and what steps can be taken if there is a complaint. For queries about complaint procedures under the Statute on Student Conduct, contact the Facilitator and Disputes Advisor. This Statute is available in the Faculty Student Administration Office or on the website at:
www.vuw.ac.nz/policy/StudentConduct.
The policy on Staff Conduct can be found on the VUW website at:
www.vuw.ac.nz/policy/StaffConduct.

Academic Grievances

If you have any academic problems with your course you should talk to the tutor or lecturer concerned or, if you are not satisfied with the result of that meeting, see the Head of School or the Associate Dean (Students) of your Faculty. Class representatives are available to assist you with this process. If, after trying the above channels, you are still unsatisfied, formal grievance procedures can be invoked. These are set out in the Academic Grievances Policy which is published on the VUW website:
www.vuw.ac.nz/policy/AcademicGrievances.

Academic Integrity and Plagiarism

Academic integrity is about honesty – put simply it means **no cheating**. All members of the University community are responsible for upholding academic integrity, which means staff and students are expected to behave honestly, fairly and with respect for others at all times.

Plagiarism is a form of cheating which undermines academic integrity. Plagiarism is prohibited at Victoria.

The University defines plagiarism as follows:
Plagiarism is presenting someone else's work as if it were your own, whether you mean to or not.

'Someone else's work' means anything that is not your own idea, even if it is presented in your own style. It includes material from books, journals or any other printed source, the work of other students or staff, information from the Internet, software programmes and other electronic material, designs and ideas. It also includes the organization or structuring of any such material.

Plagiarism is not worth the risk.

Any enrolled student found guilty of plagiarism will be subject to disciplinary procedures under the Statute on Student Conduct (www.vuw.ac.nz/policy/studentconduct) and may be penalised severely. Consequences of being found guilty of plagiarism can include:
- an oral or written warning
- suspension from class or university
- cancellation of your mark for an assessment or a fail grade for the course.

Find out more about plagiarism and how to avoid it, on the University's website at:
http://www.victoria.ac.nz/home/study/plagiarism.aspx

Notice of Turnitin Use

Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine at http://www.turnitin.com. Turnitin is an on-line plagiarism prevention tool which compares submitted work with a very large database of existing material. At the discretion of the Head of School, handwritten work may be copy-typed by the School and subject to checking by Turnitin. Turnitin will retain a copy of submitted materials on behalf of the University for detection of future plagiarism, but access to the full text of submissions will not be made available to any other party.

Students with Impairments

The University has a policy of reasonable accommodation of the needs of students with disabilities. The policy aims to give students with disabilities the same opportunity as other students to demonstrate their abilities. If you have a disability, impairment or chronic medical condition (temporary, permanent or recurring) that may impact on your ability to participate, learn and/or achieve in lectures and tutorials or in meeting the course requirements, please contact the Course Coordinator as early in the course as possible. Alternatively you may wish to approach a Student Adviser from Disability Support Services (DSS) to discuss your individual needs and the available options and support on a confidential basis. DSS are located on Level 1, Robert Stout Building, telephone (04) 463 6070, email disability@vuw.ac.nz. The name of your School's Disability Liaison Person is in the relevant prospectus or can be obtained from the School Office or DSS.

Student Support

Staff at Victoria want students' learning experiences at the University to be positive. If your academic progress is causing you concern, please contact the relevant Course Co-ordinator, or Associate Dean who will either help you directly or put you in contact with someone who can.

The Student Services Group is also available to provide a variety of support and services. Find out more at www.vuw.ac.nz/st_services/ or email student-services@vuw.ac.nz.

VUWSA employs two Education Coordinators who deal with academic problems and provide support, advice and advocacy services, as well as organising class representatives and faculty delegates. The Education Office is located on the ground floor, Student Union Building, phone 463 6983 or 463 6984, email education@vuwsa.org.nz.

Manaaki Pihipihinga Maori and Pacific Mentoring programme

This is a mentoring service for Maori and Pacific students studying at all levels. Weekly one hour sessions are held at the Kelburn and Pipitea Campuses in the Mentoring Rooms, 14 Kelburn Parade, and Room 210 and 211, Level 2, Railway West Wing. Sessions cover drafting and discussing assignments, essay writing, and any questions that may arise from tutorials and/or lectures. A computer suite networked to Cyber Commons is available for student use. More information can be found through the link:
http://www.victoria.ac.nz/st_services/mentoring/