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School of Information Management

## INFO232 Business Systems Analysis

Trimester Two 2010

### COURSE OUTLINE

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#### Contact Details

|                                | Staff           | Room  | Email & Telephone  | Contact        |
|--------------------------------|-----------------|-------|--|----------------|
| Course Co-ordinator & Lecturer | David Johnstone | EA218 | <a href="mailto:David.Johnstone@vuw.ac.nz">David.Johnstone@vuw.ac.nz</a><br>Ph. 463-5877 | By appointment |
| Senior Tutor                   | Xiaoyi Guan     | EA111 | <a href="mailto:Xiaoyi.guan@vuw.ac.nz">Xiaoyi.guan@vuw.ac.nz</a><br>Ph. 463-6998         |                |

#### Dates, Times and Room Numbers

**Credit Value:** 15 points

**Prerequisite:** INFO101

**Restrictions:** INFO222

**Teaching Period:** Monday 12<sup>th</sup> July – Friday 15<sup>th</sup> October 2010

**Study Period:** Monday 18<sup>th</sup> October – Thursday 21<sup>st</sup> October 2010

**Examination Period:** Friday 22<sup>nd</sup> October – Saturday 13<sup>th</sup> November 2010 (inclusive)

**Lectures:** Tuesday 12 noon - 1:50pm in HMLT206

**Tutorials:** See **Tutorial Signup Instructions**

#### Withdrawal from Courses:

Your fees will be refunded if you withdraw from this course on or before **23 July 2010**

The last date for withdrawal from this course is the three-quarter point of the teaching period, i.e. **Friday 24 September**. After that date, permission to withdraw requires the permission of the Associate Dean (Students) as set out in section 8 of the Personal Courses of Study Statute

<http://policy.vuw.ac.nz/Amphora!~policy.vuw.ac.nz~POLICY~000000001743.pdf>

To apply for permission, fill in the Late Withdrawal form available from either of our Student Customer Service Desks.

# Course Learning Objectives

By the end of this course, students should be able to:

- a) explain the different stages of the SDLC;
- b) perform requirements analysis;
- c) develop data models;
- d) develop process models; and
- e) develop design solutions.

# Course Schedule

| INFO 232 – Lectures & Tutorials       |   |                           | 2010 / 2                        |
|---------------------------------------|---|---------------------------|---------------------------------|
| DATE                                  | TOPIC   | Readings                  | Notes                           |
| <b>WEEK 1:</b>                        |   |                           |                                 |
| Tues 13 July                          | Introduction to information systems & IS development            | Bent & Whit<br>Ch 1 - 3   | Sign up for tutorials this week |
|                                       | No Tutorials  |                           |                                 |
| <b>WEEK 2:</b>                        |   |                           |                                 |
| Tues 20 July                          | Requirements gathering<br>Introduction to data modelling (ERDs) | Bent & Whit<br>Ch 5, 6, 8 |                                 |
|                                       | <b>TUTORIAL 1:</b> Requirements gathering                       |                           |                                 |
| <b>WEEK 3:</b>                        |   |                           |                                 |
| Tues 27 July                          | Logical data modelling (ERDs)                                   | Bent & Whit<br>Ch 8       |                                 |
|                                       | <b>TUTORIAL 2:</b> Data modelling                               |                           |                                 |
| <b>WEEK 4:</b>                        |   |                           |                                 |
| Tues 3 Aug                            | Data analysis (Normalisation)                                   | Bent & Whit<br>Ch 8       |                                 |
|                                       | <b>TUTORIAL 3:</b> Data analysis                                |                           |                                 |
| <b>WEEK 5:</b>                        |   |                           |                                 |
| Tues 10 Aug                           | <b>TEST 1</b>   |                           | Covers Weeks 1 - 4              |
|                                       | No tutorials  |                           |                                 |
| <b>WEEK 6:</b>                        |   |                           |                                 |
| Tues 17 Aug                           | Use cases   | Bent & Whit<br>Ch 7       |                                 |
|                                       | <b>TUTORIAL 4:</b> Use cases                                    |                           |                                 |
| <b>WEEKS: 23 August – 5 September</b> |   | <b>TRIMESTER BREAK</b>    |                                 |
| <b>WEEK 7:</b>                        |   |                           |                                 |
| Tues 7 Sept                           | Introduction to process modelling (DFDs)                        | Bent & Whit<br>Ch 9       |                                 |
|                                       | <b>TUTORIAL 5:</b> Process modelling                            |                           |                                 |
| <b>WEEK 8:</b>                        |   |                           |                                 |
| Tues 14 Sept                          | Further process modelling (DFDs)                                | Bent & Whit<br>Ch 9       |                                 |
|                                       | <b>TUTORIAL 6:</b> Process modelling                            |                           |                                 |
| <b>WEEK 9:</b>                        |   |                           |                                 |
| Tues 21 Sept                          | <b>TEST 2</b>   |                           | Covers Weeks 6 - 8              |
|                                       | No tutorials  |                           |                                 |
| <b>WEEK 10:</b>                       |   |                           |                                 |
| Tues 28 Sept                          | Systems design: application architecture & databases            | Bent & Whit<br>Ch 12-14   |                                 |
|                                       | <b>TUTORIAL 7:</b> Database design & physical DFDs              |                           |                                 |
| <b>WEEK 11:</b>                       |   |                           |                                 |
| Tues 5 Oct                            | Systems design: input, output and interfaces                    | Bent & Whit<br>Ch 15-17   |                                 |
|                                       | <b>TUTORIAL 8:</b> I/O & interface design                       |                           |                                 |
| <b>WEEK 12:</b>                       |   |                           |                                 |
| Tues 12 Oct                           | Object oriented analysis & design using UML                     | Bent & Whit<br>Ch 10, 18  |                                 |
|                                       | <b>TUTORIAL 9:</b> UML  |                           |                                 |

## Delivery Method

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

### **Expected Workload**

As a 15-point course, students are expected to invest approximately 150 hours worth of effort to complete the course successfully. These hours include time preparing for and participating in: lectures, tutorials, and tests. They include time spent at the university and any time spent on the course off campus.

## 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. It will be updated periodically. You are expected to check the announcements regularly.

## Textbook

The textbook for this course is:

**Bentley & Whitten (2007) Systems Analysis & Design for the Global Enterprise. McGraw-Hill, 7<sup>th</sup> Edition**

## Assessment Details

Note that there is no final examination for this course. Course assessment will be based on the following:

|                                   | <u>Learn Obj</u>  |             | <u>Date</u>                         |
|-----------------------------------|-------------------|-------------|-------------------------------------|
| <b>Test 1</b> (Data Modelling)    | <b>a, b, c</b>    | <b>30%</b>  | <b>10 August</b>                    |
| <b>Test 2</b> (Process Modelling) | <b>a, d</b>       | <b>30%</b>  | <b>21 September</b>                 |
| <b>Examination</b>                | <b>a, e</b>       | <b>30%</b>  | <b>tba (exam period)</b>            |
| <b>Tutorial submissions</b>       | <b>b, c, d, e</b> | <b>10%</b>  | Every week except for Weeks 1, 5, 9 |
| <b>TOTAL</b>                      |                   | <b>100%</b> |                                     |

*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 six out of nine designated tutorials;
2. Obtain an average of at least 50% across all assessments.

**Please note:** Do not take chances by missing tutorials unnecessarily – you may later become ill or be otherwise forced to miss some tutorials, and then find that you have not accumulated enough tutorial attendances.

# Tutorials

Students are required to register for **one** 1-hour tutorial.

## ***Tutorial Sign-up***

Please sign up for a tutorial session by **5pm, Thursday of Week 1** as tutorials will start in Week 2. The tutorial signup system is called S-cubed (see <https://signups.victoria.ac.nz/> for details). Instructions are available on Blackboard.

## ***Tutorial hopping is not permitted***

Tutorial hopping is not allowed. If you need to temporarily change to another tutorial, please print and fill out the Tutorial Change Form (can be found under Course Information tag on Blackboard).

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

## ***Tutorials***

For each tutorial, students are required to submit their submission to the tutors at the beginning of the tutorial. Each submission is worth 1% of your final grade. A bonus 1% will be given if you attend all nine tutorials.

# Tests / Examination

The tests reflect the three parts of the course. For each test, you will be provided with details of an assignment case, and will be expected to answer questions about the case during the test. The more students work on the assignment case prior to the test, the better prepared they will be when sitting the test.

Note the first two tests are held during class time. The final test is set as an examination after the lectures.

Students who enrol in courses with examinations are obliged to attend an examination at the University at any time during the formal examination period.

The final examination for this course will be scheduled at some time during the period:

**Friday 22nd October – Saturday 13th November 2010 (inclusive)**

# Class Representative

The class representative provides a communication channel to liaise with the Course Coordinator on behalf of students. A class representative will be elected in the first lecture of this course. Their contact details will be made available on Blackboard.

# 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.

# 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.

The INFO232 website can be accessed at: <http://blackboard.vuw.ac.nz>

## Penalties

Failure to sit a test or examination will mean no marks are allocated for that assessment. Failure to submit a tutorial submission before the start of the tutorial will mean no mark will be allocated. If students are unable to sit a test or submit their tutorial submission on time, they need to provide the Senior Tutor (or Course Coordinator) with documentary evidence (such as a medical certificate) demonstrating why they were unable to comply.

**\*Please note: Certificates from the Student Counselling Service are no longer accepted as documentary evidence to support an extension.**

## General University Policies and Statutes

Students should familiarise themselves with the University's policies and statutes, particularly those regarding assessment and course of study requirements, and formal academic grievance procedures. [http://www.victoria.ac.nz/home/about\\_victoria/avcacademic/Publications.aspx](http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx)

## 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.**

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.

**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

<http://www.victoria.ac.nz/home/about/policy>

### AVC (Academic) Website: information including: Conduct, Academic Grievances, Students with Impairments, Student Support

[http://www.victoria.ac.nz/home/about\\_victoria/avcacademic/Publications.aspx](http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx)

### Faculty of Commerce and Administration Offices

<http://www.victoria.ac.nz/fca/studenthelp/>

### Manaaki Pihipihinga Programme

[http://www.victoria.ac.nz/st\\_services/mentoring/](http://www.victoria.ac.nz/st_services/mentoring/)