

School of Information Management

INFO341 ADVANCED DATABASE MANAGEMENT AND PROGRAMMING

Trimester Two 2010

COURSE OUTLINE

Names and Contact Details

Role	Name	Room	Phone	E-mail
Course Coordinator	Dr Flavio Ferrarotti	EA236	463 6857	Flavio.Ferrarotti@vuw.ac.nz
Senior Tutor	Ms Xiaoyi Guan	EA111	463 6998	Xiaoyi.Guan@vuw.ac.nz

Trimester Dates

Teaching Period: Monday 12th July – Friday 15th October 2010

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.

Class Times and Room Numbers

- LECTURES: Thursday, 2:10-4:00pm, LBLT118
- TUTORIALS & WORKSHOPS: There will be 6 tutorials and 6 workshops of 1 hour each. Times and venues will be announced on Blackboard during the first week of lectures.

Course Content

This is an advanced enterprise level database management and programming course. Students will acquire the knowledge needed to develop a business solution using an enterprise level database server, and an appreciation of the issues and trade-offs relevant to practical solutions in the real life environment.

A tentative schedule of lectures and readings components is illustrated in the following table. Notice that the course coordinator reserves the right to make changes during the trimester.

Wk	Date	Topic	Tutorial	Workshop	Readings
1	15/07	Introduction Programming T-SQL			Pro_T Ch1 Pro_T Ch2
2	22/07	Enhancement and New Features Procedural code and case expression	Tutorial 1	Workshop 1	Pro_T Ch 2,Ch 9 Pro_T Ch 4
3	29/07	User-Defined Functions Stored Procedure I	Tutorial 2	Workshop 2	Pro_T Ch5 Pro_T Ch 6
4	05/08	Stored Procedure II Triggers			Pro_T Ch 6 Pro_T Ch 7
5	12/08	Integrated Full-Text Search CLR	Tutorial 3	Workshop 3	Pro_T Ch 10 Pro_T Ch 14
6	19/08	Class test #1			
2 Weeks of Mid-trimester Break					
7	09/09	ASP.NET Creating Web Site			supp
8	16/09	Webform Server Controls	Tutorial 4	Workshop 4	supp
9	23/09	Reporting Service Creating & Managing Report			Accel Ch 19
10	30/09	Analysis Service Business Intelligence Development	Tutorial 5	Workshop 5	Accel Ch 20
11	07/10	Integration Services	Tutorial 6	Workshop 6	Accel Ch 21
12	14/10	Class test #2			
13		Project Presentation and Marking			

Course Learning Objectives

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

LO1: design, specify and implement a working business solution using an enterprise level database.

LO2: develop effective interfaces for data queries and reports.

LO3: apply advanced query language, views, triggers, user defined functions, and stored procedures.

LO4: enhance business rules and data integrity.

LO5: apply security measures to a database.

Course Delivery

Students are expected to complete the weekly assignments in order to understand the concepts and theories taught during lectures. Students should also prepare for the workshop/tutorial prior to their allocated time. Two class tests will evaluate and assess your understanding about the theories, concepts and technologies learnt throughout the course. Project assignment will assess your integrated knowledge in implementing a working business solution using an enterprise level database.

Expected Workload

In terms of weekly course workload, expect to spend two hours in lectures, two hours in the workshop/tutorial and about seven to ten hours working on your own per week in preparation for lectures, workshops, assignments, tests and project.

Readings

The following textbooks are required and can be downloaded from the library:

- Coles, M. (2008). Pro T-SQL 2008 Programmer's Guide [electronic resource] Publisher: Berkeley, CA : Apress, 2008. ISBN: 9781430210023
- Walters, R. E., Coles, M., Rae, R., Ferracchiati, F., Farmer, D. (2008) Accelerated SQL Server 2008 [electronic resource] Publisher: Berkeley, CA: Robert Walters, 2008. ISBN: 9781430206064

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.

Assessment Requirements

Assessment Component	Learning Objectives	Due Date	Contribution to Final Grade
Weekly Assignments	LO2, LO3, LO4, LO5	Every Friday, 11am	20%
Class Test #1	LO3	19/08	20%
Class Test #2	LO2, LO4	14/10	20%
Final Project	LO1, LO2, LO3, LO4, LO5	20/10, 10am	40%

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.

Examinations

There is no final exam.

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.

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.

Mandatory Course Requirements

To pass INFO 341, students must have:

- Attained a weighted average of 50% over all assessments.
- Attended at least 80% lectures.
- Attended all workshops and tutorials.

Class Representative

A class representative will be elected in the first lecture. The name and contact details of the representative will be 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 system

<http://blackboard.vuw.ac.nz>

You are expected to check for announcements on Blackboard on a regular basis. Please contact the Senior Tutor in order to have a user ID and a password to log in.

Use of Turnitin (if applicable)

Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine <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.

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/avcademic/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/