

School of Information Management

## INFO341 ADVANCED DATABASE MANAGEMENT AND PROGRAMMING

Trimester 2, 2015

### COURSE OUTLINE

#### Class Times and Room Numbers

**Lecture:** RHLT3 Monday 10:30 -11:20  
**Office Hours:** Thursday & Friday 10am – 11am  
**Workshop:** RWW415

#### Names and Contact Details

Role	Name	Room	Tel.	E-mail
<b>Course Coordinator</b>	Dr Tiong T. Goh	RH403	463 6860	tiong.goh@vuw.ac.nz
SIM Undergraduate Support Team		RH502	463 6998	simstudents@vuw.ac.nz

#### Assessment Requirements

Tasks	Learning Objectives	Due Date	Percentage
Assignment 1	LO1, LO3, LO4	9/9 2pm	20
Class Test	LO1, LO2, LO3, LO4, LO5	15/10 5:30-7:30	30
Assignment 2	LO1, LO2, LO3, LO4, LO5	30/10 2pm	30
5 Workshop submission	LO1, LO2, LO3, LO4, LO5	TBA	5
5 Tutorial submission	LO1, LO2, LO3, LO4, LO5	TBA	5
5 Pop Quizzes	LO1, LO2, LO3, LO4, LO5		10
<b>Total</b>			<b>100</b>

The Assessment Handbook will apply to all VUW courses, see <http://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf>.

#### Trimester Dates

Teaching Period: From Monday 13th July – Friday 30th October

#### Mandatory Course Requirements

In addition to obtaining an overall course mark of 50 or better, students must:

1. Attend at least 10 lectures.
2. Attend at least 4 workshops and 4 tutorials.
3. Submit at least 4 workshops and 4 tutorial exercises.

**\*attendance is considered valid only if student attended the full duration of the class.**

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

Any student who is concerned that they have been, or might be, unable to meet any of the mandatory course requirements because of exceptional personal circumstances, should contact the course coordinator as soon as possible.

**Examinations**

There is no final exam.

**Readings**

The following textbooks are required:

Coles, M., Shaw, S., Natarajan, J., & Bruchez, R. (2012). Pro T-SQL 2012 Programmer's Guide. Apress.

E-book can be downloaded from VUW library

<http://vuw.ebib.com.helicon.vuw.ac.nz/patron/FullRecord.aspx?p=1156068>

or purchase from <http://link.springer.com/book/10.1007/978-1-4302-4597-1>

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.

E-book can be downloaded from VUW library.

**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.

Wk	Date	Topic	Tutorial	Workshop	Readings	Due
1	13/7	Database Files & User Admin			SUP	
2	20/7	Programming T-SQL	Tutorial 1	Workshop 1	Coles Ch3,8	
3	27/7	User-Defined Functions			Coles Ch4	
4	3/8	Triggers 1	Tutorial 2	Workshop 2	Coles Ch6	
5	10/8	Triggers 2			Coles Ch6	
6	17/8	Stored Procedures	Tutorial 3	Workshop 3	Coles Ch5	
BREAK						
7	7/9	Integrated Full-Text Search 1			Coles Ch10	Assignment 1 due 9/9 2pm
8	14/9	Integrated Full-Text Search 2			Coles Ch10	

Wk	Date	Topic	Tutorial	Workshop	Readings	Due
9	21/9	Data Analytics 1	Tutorial 4	Workshop 4	SUP	
10	28/9	Data Analytics 2			SUP	
11	5/10	Social Media Analytics	Tutorial 5	Workshop 5	SUP	
12	12/10	Review class Test			SUP	Class Test 15/10 RHLT1
						Assignment 2 due 30/10 2pm

### Course Learning Objectives

Learning objectives	By the end of this course, students should be able to:	Graduate Attributes	Major Attributes
LO1	design, specify and implement a working business solution using an enterprise level database	LG1 LG2 LG4 LG5	MA3 MA4
LO2	develop effective interfaces for data queries and reports	LG1 LG2 LG5	MA3
LO3	apply advanced query language, views, triggers, user defined functions, and stored procedures	LG1 LG4 LG5	MA3
LO4	enhance business rules and data integrity	LG1 LG5	MA6
LO5	apply security measures to a database	LG1 LG5	MA6

### Withdrawal from Course

- Your fees will be refunded if you withdraw from this course on or before Friday 24 July 2015.
- The standard last date for withdrawal from this course is Friday 25 September. 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.

### Course Delivery

Students are expected to complete the assignments in order to understand the concepts and theories taught during lectures. Students should also prepare for the workshop and tutorial prior to their allocated time. Class test will evaluate and assess your understanding about the theories, concepts and technologies learnt throughout the course. Assignment will assess your knowledge in implementing a working solution using an enterprise level database and tools.

### Expected Workload

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

## **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
- Read the workshop requirement prior to their allocated workshop time

## **Practicum Arrangements**

Workshop and tutorial slots will be available on the sign-up system

<https://student-sa.victoria.ac.nz/> You must select only one time slot that fits your timetable.

## **Extensions and Penalties**

### Extensions

Personal extensions are granted only in special circumstances and supporting evidence such as a medical certificate may be requested by the course coordinator or SIM undergraduate support team.

Non-extendable assessments. For some work, such as lab projects, case discussion preparation, quizzes, workshop and tutorial preparation there is no possibility of late submission as the opportunity for the work to be completed has already passed.

### Penalties

The penalty for late submission of work without a prior extension arrangement is a reduction of 10% of the available marks each calendar day, starting from the due date and time, up to 5 days after the due date. At the course coordinator's discretion, work handed in after 5 days may be assessed and feedback provided, but no grade will be assigned.

## **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 notices relating to this course will be posted on Blackboard.

[www.blackboard.vuw.ac.nz](http://www.blackboard.vuw.ac.nz)

## **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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