

School of Information Management

## INFO151 DATABASES

Trimester 2, 2016

### COURSE OUTLINE

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#### Prescription

This course introduces the principles of database definition, design, access and implementation. It shows how databases support modern data processing systems. Students will be able to create a data model from a business situation, implement a database from that data model and use query language such as SQL to access data.

#### Course Learning Objectives (CLOs)

- 1 Describe the role of databases and database management systems in organisations.
- 2 Use a conceptual data modeling technique.
- 3 Implement a relational database design from a business case.
- 4 Create flexible database queries.

#### Trimester Dates

From Monday 11th July to Friday 14th October 2016.

#### Withdrawal from Course

1. Your fees will be refunded if you withdraw from this course on or before Friday 22<sup>nd</sup> July 2016.
2. The standard last date for withdrawal from this course is Friday 23<sup>rd</sup> September 2016. 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 or [online](#).

#### Names and Contact Details

	<b>Staff</b>	<b>Contact details</b>	<b>Room</b>	<b>Office Hours</b>
Course Coordinator & Lecturer	David Mason	<a href="mailto:david.mason@vuw.ac.nz">david.mason@vuw.ac.nz</a> 463 7435	RWW418	Email for an appointment
SIM Undergraduate Support Team	Anette Klaassen Duncan Inkster	<a href="mailto:simstudents@vuw.ac.nz">simstudents@vuw.ac.nz</a> 04 463 6659	MY214 RH521	Mon & Wed 11am-4pm Mon-Fri 10am-4pm

## Class Times and Room Numbers

CRN	Lecture time	Lecture Room
27095	Wednesdays 11.00-11.50am	COLT122

## Tutorial/Workshop Signups

Sign up via myAllocator <https://student-sa.victoria.ac.nz/>

## Readings

There is no text to buy for this course. All materials will be available on Blackboard, or from Internet links.

Software: Part 1 will involve writing practical SQL programs in DB browser for SQL lite. SQL Lite is freely available open source software. Details will be supplied in class.

## Expected Workload

You are expected to spend 12 hours per week to study INFO151.

A teaching week will typically include:

1 hour lectures; 1 hour for reading as preparation for the lecture

2-hour workshop; plus 3 hours for reading and working on each workshop

You are expected to spend 8 hours preparing for each test.

For each assignment you are expected to spend 24 hours reading and practising. The assignments will include weekly workshop exercises that earn marks towards the overall assignment.

## Lecture Schedule

Lect	Date	Topic	Lab Exercise	Lab Assignments
1	13 Jul	Introduction to SQL		
2	20 Jul	SQL programming	EX01	
3	27 Jul	SQL queries	EX02	SQL Assignment A
4	03 Aug	SQL queries	EX03	SQL Assignment B
5	10 Aug	SQL Reporting		
6	17 Aug	SQL subqueries	EX04	SQL Assignment C
	24 Aug	<i>Mid Term Break</i>		
	31 Aug	<i>Mid Term Break</i>		
7	07 Sept	SQL Advanced	EX05	SQL Assignment D
8	14 Sept	SQL for DB Definition		Workshop Test
9	21 Sept	Database Administration	EX06	SQL Assignment E
10	28 Sept	Database Design	EX07	DD Assignment F
11	05 Oct	Database Design		DD Assignment G
12	12 Oct	Data Centred Business processes		Workshop Test

## Assessment

Assessment	Due	%	CLO(s)
1 SQL programming x 5	Wk 3,4,6,7,9	40	2 and 3
2 Test 1 In workshop	Wk 08	20	1-2
3 Data modelling x 2	Wk 10,11	20	2,3,4
4 Test 2 In workshop	Wk 12	20	2-4

The Assessment Handbook will apply to all VUW courses: see

<http://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf>.

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)

### **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.

### **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, and tutorial preparation there is no possibility of late submission as the opportunity for the work to be completed has already passed.

### **Student feedback**

#### **Changes to the course from 2015**

INFO151 was a new course offered for the first time in 2015. Experience has suggested that the sequence of the materials would be better if the programming part was presented earlier in the course. The SQL programming has been moved to the first part and the data modelling is now integrated with the table design modules towards the end of the course. More emphasis has been placed on teaching activities within the workshop periods so that students can get hands-on experience earlier. Workshops have been extended to two hours.

Student feedback on University courses may be found at [www.cad.vuw.ac.nz/feedback/feedback\\_display.php](http://www.cad.vuw.ac.nz/feedback/feedback_display.php).

### **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**

Additional information or information on changes will be notified on Blackboard.

### **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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