

School of Information Management

## INFO 151 DATABASES

Trimester 1, 2016

### COURSE OUTLINE

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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 a query language such as SQL to access the data.

CRN	Lecture time	Lecture Room
27094	Wednesdays 12.00pm - 12.50pm	Cotton Building COLT122

	Staff	Contact details	Room	Office Hours
Course Coordinator & Lecturer	David Mason	<a href="mailto:david.mason@vuw.ac.nz">david.mason@vuw.ac.nz</a> 463 7435	RH429	email
SIM Undergraduate Support Team	Anette Klaassen Duncan Inkster	<a href="mailto:simstudents@vuw.ac.nz">simstudents@vuw.ac.nz</a> 04 463 6659	EA 111	Check Blackboard for office hours

*\* To contact us outside of these office hours call extension 6659 to be diverted to the Rutherford House office – a phone is located next to the Faculty of Commerce reception, EA 118*

#### 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

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>.

#### Tutorial/Workshop Signups

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

## **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.

## **Trimester Dates**

Teaching Period: Monday 29<sup>th</sup> February – Friday 3<sup>rd</sup> June

## **Readings**

There is no text to buy for this course. All materials will be available for download from 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 2 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**

<b>Lect</b>	<b>Date</b>	<b>Topic</b>	<b>Lab Exercise</b>	<b>Lab Assignments</b>
1	02 Mar	Introduction to SQL		
2	09 Mar	SQL programming	EX01	
3	16 Mar	SQL queries	EX02	SQL Assignment A
4	23 Mar	SQL queries	EX03	SQL Assignment B
	<i>30 Mar</i>	<i>Easter Week</i>		
5	06 Apr	SQL Reporting		
6	13 Apr	SQL subqueries	EX04	SQL Assignment C
7	20 Apr	SQL for DB Definition	EX05	SQL Assignment D
	<i>27 Apr</i>	<i>Mid Term Break</i>		
8	04 May	SQL Advanced		Workshop Test
9	11 May	Database Administration	EX06	SQL Assignment E
10	18 May	Database Design	EX07	DD Assignment
11	25 May	Database Design		DD Assignment
12	01 Jun	Data Centred Business processes		Workshop Test

## **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.

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)

## **Course Admin**

### **Withdrawal from Course**

Your fees will be refunded if you withdraw from this course on or before Friday 11th March 2016.

The standard last date for withdrawal from this course is Friday 13th May. 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](#).

### **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.

### **Penalties**

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

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)

### **Use of Turnitin**

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 submitted to Turnitin. A copy of submitted materials will be retained 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.

### **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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