



QUAN 102
STATISTICS FOR BUSINESS
1/3 2009

Lecturer and Course Coordinator

Cushla Thomson, RH303, phone 463-6855, email: cushla.thomson@vuw.ac.nz, (wks 1-6). Office hours: Weds and Thurs 3pm-4pm in EA128. Other times by appointment.

John Randal, RH308, phone 463-5558, email: john.randal@vuw.ac.nz, (wks 7-12). Office hours: by appointment.

Administrator

Francine McGee, RH319, phone 463-5818, email: francine.mcgee@vuw.ac.nz

Duty Tutor

Kate Hill will be in EA005 on Weds and Thurs from 1.00–2.00 to help with any QUAN 102 questions (except assignments).

Lecture times

Wednesday and Thursday 12.00–12.50, MCLT103, CRN1482

Wednesday and Thursday 2.10–3.00, MCLT103, CRN 4501

Tutorial times

To view and sign up to tutorials go to <https://signups.vuw.ac.nz/>. You should attend one tutorial per week. Tutorial sign up closes on Friday 6 March at 5.00pm.

Course website

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

Readings

The text is: Clark and Randal (2004), *A First Course in Applied Statistics*, Pearson, ISBN 1877258903 (VUW Library call number QA276 C594 F), available from the Victoria Book Centre for \$56.99. Second-hand copies may be available.

Materials and equipment

You must have a calculator. Casio fx-82 is recommended - it is cheap, and capable.

Assignments

There will be five short assignments, due fortnightly as indicated on the next page. These are marked out of 2, with 0 = unacceptable quality, and 2 = perfect. Everything else = 1.

- DO head your assignments with
 - * your **NAME**,
 - * your **TUTOR'S NAME**, and
 - * the **TIME** of your tutorial.
- DO staple all sheets together.
- DO NOT fold your assignments or seal them shut.
- DO NOT put your work in a plastic sleeve.
- Submit into your tutor's assignment boxes by MY221.

A mark of less than 5/10 would indicate that you may struggle to pass the test and/or final exam.

Mandatory course requirements

- receive at least 3 out of 10 for the five assignments
- sit the two tests (details below)

Assessment requirements

The assignments are worth 10% of your final grade, determined as follows:

Assignment mark/10	3	4	5	6
Grade contribution %	5	6	7	8
Assignment mark/10	7	8	9	10
Grade contribution %	8	9	9	10

Two 60 minute multichoice tests will be held on: Tues 31 March, 6.30pm (L1-6) and Wed 13 May, 6.30pm (L7-14). These are worth 20% each of your final grade.

The final exam will be two hours. Date and time tba. This will be worth 50% of your final grade.

Course content

Chapter references are to Clark & Randal. Prepare for each lecture by scanning the indicated text book sections - do not try to read it in detail until *after* the lecture.

Date	Lecture	Topic	Section	Tutorial
4 Mar	1	Variables; processing data	2	
5 Mar	2	Summary statistics	3.1, 3.2	
11 Mar	3	Standard deviation; boxplots	3.2.3, 3.4	L1-2
12 Mar	4	Scatterplots; correlation	4.1-4.2	
18 Mar	5	Regression (estimation and assumptions)	4.3	L3-4
19 Mar	6	Regression (prediction)	4.3	
23 Mar		<i>Assignment 1 due, 5.00pm</i>		L5-6
25 Mar	7	Introduction to probability	5.1-5.2	
26 Mar	8	Probability trees	5.3	
31 Mar		<i>Test, 60 minutes, 6.30pm (Lectures 1-6)</i>		L7-8
1 Apr	9	Bayes' rule	5.4	
2 Apr	10	Distributions; binomial experiments	6	
6 Apr		<i>Assignment 2 due, 5.00pm</i>		L9-10
8 Apr	11	Binomial distribution	6	
9 Apr	12	Normal distribution	7.1	
<i>Mid -trimester break, 2 weeks</i>				
29 Apr	13	Central limit theorem	7.2	L11-12
30 Apr	14	Sampling distribution	7.3	
4 May		<i>Assignment 3 due, 5.00pm</i>		L13-14
6 May	15	Introduction to inference; intervals for a single mean	8.1	
7 May	16	Testing for a single mean	8.1	
13 May	17	Small sample testing for a single mean	8.2	L15-16
13 May		<i>Test, 60 minutes, 6.30pm (Lectures 7-14)</i>		
14 May	18	Inference for a proportion	8.4	
18 May		<i>Assignment 4 due, 5.00pm</i>		L17-18
20 May	19	Margin of error	8.5-8.6	
21 May	20	Comparing two means	9.1-9.2	
27 May	21	Paired comparisons	9.5	L19-20
28 May	22	Comparing proportions	9.6	
2 June		<i>Assignment 5 due, 5.00pm</i>		L21-22
3 June	23	Contingency table testing	11.2	
4 June	24	Contingency table testing	11.2	
TBA		<i>Examination</i>		

***This document is a quick reference only. The course outline can be found on Blackboard.