

ICE-EM Access Grid Room Project

Subject Information Form for 2013

Administration

1. Department and institution

Department: School of Mathematics and Applied Statistics

Institution: University of Wollongong

2. Subject name and code

Name: Statistical Consulting

Code: STAT904 (and a component of STAT401)

3. Handbook entry URL, subject homepage URL, host honours student hand-out URL

- Handbook entry URL
https://sols.uow.edu.au/owa/sid/CAL.SUBJECTINFO?p_subcode=STAT904&p_year=2013&p_source=WebCMS
- Subject homepage URL
N/A
- Host Honours student hand-out URL
www.uow.edu.au/informatics/maths/students/current/honours/index.html

4. **Lecturer** name and contact details

Name: David Steel
Phone: 02 4221 3823
Email: dsteel@uow.edu.au

Name: Carole Birrell
Phone: 02 4221 5872
Email: cbirrell@uow.edu.au

Homepage: www.uow.edu.au/informatics/math/index.html

5. **Honours coordinator** name and contact details

Name: Xiaoping Lu
Phone: 02 42213840
Email: xiaoping_lu@uow.edu.au

6. Start date, end date, number of teaching weeks

Start date: Week 1 Lectures; Monday 4th March, 10:30am – 12.30pm

End date: Week 13 Lectures; Monday 3rd June, 10:30am – 12.30pm

Number of teaching weeks: 12 (Easter Monday 1st April, Recess week 22 - 28 April)

7. Contact hours per week

2 hours: Mondays 10:30am – 12.30pm

8. Description of electronic access arrangements for students (for example, WebCT)

UOW eLearning space
Email: dsteel@uow.edu.au

Academic

1. Overview of subject content

After successful completion of this subject, students should be able to perform the following tasks;

- (i) Identify and deal with ethical issues arising through the consulting relationship
- (ii) Conduct an initial interview as a statistical consultant, eliciting the problem and directing

- appropriate follow-up.
- (iii) Appraise statistical consulting sessions conducted by others.
- (iv) Analyse and report to a client in a timely and effective manner.
- (v) Research topics previously unknown to them.
- (vi) Identify relevant analysis and design approaches in practical situations.

2. Detailed syllabus, preferably week by week

In this subject we consider the issues associated with the role of statistical consultant and client. Topics include: communication skills, choosing analysis techniques, developing appropriate study designs, questionnaire development and piloting, researching the unknown, sample size, initial interviews, follow-up interviews, analysing data, reporting, and time management.

3. Detailed breakdown of assumed prerequisite knowledge, including host prerequisite subject URLs

Major in undergraduate statistics, including common statistical methods such as ANOVA, linear and logistic regression, t- tests, chi-squared tests.

4. Assessment

All assignments will be issued on the eLearning Space. All assignments must be lodged as a single PDF document on the eLearning Space for this subject by 2pm on the due date.

The assessment in this subject will include 10 weekly assignments; a report on consultations; a summary of important points; and a report and presentation on a research topic. Details are given below.

Weekly Assignments: The ten weekly assignments are each worth 6% giving a total of 60% of the final mark. The week specified in the following table indicates when assignments will be issued and the due dates. It is important that you at least read an assignment before the lecture in the week after it is handed out so that you can ask relevant questions.

Weekly Assignments	Week Out	Date Out	Week Due	Date Due
1	1	4 Mar	3	18 Mar
2	2	11 Mar	4	25 Mar
3	3	18 Mar	5	2 Apr
4	4	25 Mar	6	8 Apr
5	5	1 Apr	7	15 Apr
6	6	8 Apr	8	29 Apr
7	7	15 Apr	9	6 May
8	8	29 Apr	10	13 May
9	9	6 May	11	20 May
10	10	13 May	12	27 May

Consultant Observations: Each student will also be asked to observe some real consultations and provide a report on them. This assessment must be submitted by 5pm in week 13 (3 Jun) and will count for 15% of the final mark.

To be involved in real consulting students will have to make themselves available outside standard class contact times. Any anticipated problem in this regard should be brought to the attention of Prof Steel.

Summary of important points: In week 12, a summary of important points covered in the subject must be submitted by 5pm on 27 May. This will count for 10% of the final mark.

Report and Presentation: Each student will be allocated a topic to research and provide a written report and give a 15-minute presentation at the lecture in week 13 (3 Jun)). This will count for 15% of the final mark.

In allocating marks to any component the clarity of presentation will be taken into account as well as content. The appropriateness of the length of any reports will also be taken into account. Information on length, style and format of written work will be given for each assignment.

Approximate exam date

N/A

5. Required student resources

- Text/printed notes

Notes will be distributed to students as required and made available on the UOW eLearning Space..

- Software (local access)

Access to a standard statistical software package such as SPSS, Stata, JMP, SAS, or R will be required to undertake some statistical analysis for assignments.

Institutional Honours Details

1. Weight of subject in total honours assessment at host department

12.5%

2. Thesis/subject split at host department

25% thesis 75% coursework (comprising 6 topics or subjects)12.5%

3. Honours grade demarcators at host department

- H1 = 85 and above%
- H2a = 75% to 84%
- H2b = 65% to 74%
- H3 = 50 to 64%