SCHOOL OF ECONOMICS

ECON 1203/ECON2292(ARTS) QUANTITATIVE METHODS B

SESSION 2, 2005

COURSE INFORMATION AND LECTURE SCHEDULE

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Course Administrator:

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Room JG 132
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ECON 1203 Quantitative Methods B Website

www.webct.unsw.edu.au
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1. TEACHING STAFF

The **Subject Administrator** is Pinijsorn (Opp) Luechaikajohnpan (JG 132; Ph. 93851346, email: s2275989@unsw.edu.au). In communication, Mr Luechaikajohnpan does not mind being addressed simply as Opp.

Any questions regarding administrative matters (such as your allocation to a tutorial group) should be directed to the Subject Administrator. However, much of the information concerning administrative matters may also be obtained from the School of Economics Office on the second floor of the John Goodsell Building (JG 223; Ph. 93853335).

The **Lecturer-in-charge** is Lance Fisher (JG 137; Ph. 93853323, email: L.Fisher@unsw.edu.au). The Lecturer-in-charge is responsible for the overall direction and content of the course.

**Others lecturing this subject are:**
Trevor Stegman (JG128 ; 93853670 ; T.Stegman@unsw.edu.au)
Judith Watson (JG210 ; 93853285 ; J.Watson@unsw.edu.au)

A list of tutors for the course will be published on the course Web site. You should feel free to approach your lecturer about any academic matter. All lecturers and some tutors will have specific consultation hours. These hours will be posted on the course website. Lecturers and the Subject Administrator may be contacted by e-mail.

2. INFORMATION ABOUT THE COURSE

2.1 UNITS OF CREDIT AND CLASS HOURS

This subject is worth 6 units of credit and the prerequisite is ECON1202 QMA. There are 2 x 1 hour lectures and 1 x 1 hour tutorial class per week and 4 computing lab hours in total. The times and venues of these lectures are given in the table below.

<table>
<thead>
<tr>
<th>Group</th>
<th>Lecturer</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Fisher/Watson</td>
<td>Monday</td>
<td>1300 – 1400</td>
<td>Mathews A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wednesday</td>
<td>1300 – 1400</td>
<td>Mathews A</td>
</tr>
<tr>
<td>C</td>
<td>Fisher/ Stegman</td>
<td>Wednesday</td>
<td>1800 – 2000</td>
<td>CLB 2</td>
</tr>
<tr>
<td>D</td>
<td>Stegman/Watson</td>
<td>Tuesday</td>
<td>1100 – 1200</td>
<td>Mathews A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thursday</td>
<td>1100 – 1200</td>
<td>Applied Science 1</td>
</tr>
<tr>
<td>E</td>
<td>Stegman</td>
<td>Tuesday</td>
<td>1500 – 1600</td>
<td>CLB8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thursday</td>
<td>1500 – 1600</td>
<td>Keith Burrows Theatre</td>
</tr>
</tbody>
</table>
Note: In the schedule above, the first named is the lecturer for Weeks 1-7 while the second named is the lecturer for Weeks 8-14.

2.3 TUTORIAL GROUP ALLOCATIONS

Each student should enrol in a tutorial group which meets for one hour each week. Tutorials start in Week 2. There will be no tutorial in Week 8 due to mid-session exams.

Any student who is not enrolled in a tutorial by Week 1 should go to Quadrangle Building Lab 1 or Lab 6, and enrol via TAS. Enrolments using this method can only be done in Week 1. Once enrolled, moving from one tutorial group to another will not be permitted unless you have compelling reasons. You should consult the Subject Administrator about these matters. (Note: ECON2292(ARTS) students in QMB should see the Subject Administrator for their tutorial and computing lab class enrolment as soon as possible).

If, due to illness or other exceptional circumstances, you are unable to attend your usual tutorial, you may try to attend another tutorial in the same week. However, students are expected to attend their usual tutorial class for at least nine tutorials during the session.

A final list of tutorial allocations will be displayed on the Quantitative Methods A website and the School of Economics notice board on the second floor of the John Goodsell Building by the middle of the first week. Tutorial Exercises for each week are provided in a separate document.

2.4 COMPUTING LABORATORIES

Students are also required to attend four 1-hour computing laboratory classes during the session. The weeks are determined from your lab allocation according to the suffix for your lab time code as follows:

A
Attend in weeks 2, 5, 9, 12;
B
Attend in weeks 3, 6, 10, 13;
C
Attend in weeks 4, 7, 11, 14;

Each student will be assigned to a lab group having a letter and a number designation. The letter refers to the lab cycle (A, B or C) and the number to the day and time for the lab. The letter refers to the position in the sequence of three weeks devoted to each lab session. Lab class allocations will be posted on the QMB website after Thursday 28th July.

Problems with lab allocation should be taken up with the Subject Administrator.

In the laboratory classes, students will use the spreadsheet program EXCEL to solve statistical problems on topics discussed in lectures. Students will be provided with a separate document outlining the computer exercises to be worked through in computing classes.
If you miss your allocated class you should attend a replacement class as soon as possible. Admittance to another class will, however, depend on availability of computers. If you are unable to attend a replacement class, you must provide a written explanation and other evidence to the Subject Administrator.

You will be awarded 5 marks to count towards your final assessment in this subject if you attend all 4 classes and your performance is satisfactory. For performance on lab assignments to be judged satisfactory you must make a genuine effort to attempt the exercises and your behaviour must be acceptable. Although quiet discussion with other students about the exercises is permissible, talking should not become disruptive.

If you make a serious effort to do the exercises, but are unable to complete them in class, you will not lose any marks for attendance. You are encouraged, however, to try to complete the exercises at some other time in a laboratory which is not occupied by a class.

If you have missed a laboratory class through illness, you should attend an alternative class in the same cycle. It is your responsibility to notify in writing, to the lab tutor on the day, the reason of your changed attendance backed by documentary evidence. Failure to make up for lab classes missed will entail the loss of 1.25 marks for each lab session missed. Missing all 4 lab classes will mean a zero mark for lab attendance work.

If you prefer and are able to complete your computer lab work at home, you should make alternative arrangements with your lab class tutor. In any case, the evidence of work completion (printouts from your work) should be handed to your lab tutor by the end of the lab class that you are supposed to attend.

2.5 EQUIPMENT REQUIRED

A basic scientific calculator is required for this course. If you wish, you may purchase the CASIO fx-911w calculator which is the current calculator provided in the exams at UNSW. Note that programmable calculators (with a full alphabetic keyboard) and hand-held computers are not permitted to be used during examinations in QMB.

Students should also purchase a 3 ½” high density IBM format diskette for data storage in computing laboratories. It may not be possible to complete all of the computing during the scheduled lab sessions and the diskette can be used to save your work until it can be completed.

2.6 PIGEONHOLE LOCATION

Spare copies of documents distributed in all lecture groups (the course outline, the tutorial and computing documents and other information etc) will be placed in the ECON1203 pigeonhole in Room 223, John Goodsell Building, which is accessible whenever the building is open.

2.7 RELATIONSHIP OF THIS COURSE TO OTHER COURSES

This course is a prerequisite for all courses in econometrics and business statistics offered by the School of Economics.
The School of Economics currently offers a number of subjects designed to equip students with statistical and other quantitative skills that are widely used and increasingly demanded by employers in commercial fields and the public sector.

Students enrolled in a B.Com can complete a minor or major in Business Statistics. Double majors combining Business Statistics with any other specialisation available in the B.Com are encouraged.

The School of Economics also offers a major in Econometrics to students enrolled in a B.Ec., which can be combined with majors such as Economics or Finance. The Econometrics major is designed for students who are quantitatively inclined and wish to gain a solid grounding in estimation/testing/forecast techniques used in economics and finance. B.Ec students can validly view a training in Econometrics as one way of enhancing their future employment possibilities. Students interested in learning more about econometrics courses should feel free to approach a first year Quantitative Methods lecturer.

2.8 APPROACH TO LEARNING AND TEACHING

The philosophy underpinning this course and its Teaching and Learning Strategies (see 3.3 below) are based on “Guidelines on Learning that Inform Teaching at UNSW. These guidelines may be viewed at: www.guidelinesonlearning.unsw.edu.au.

3. COURSE AIMS AND OUTCOMES

3.1 COURSE AIMS

The aim of this course is to introduce students to statistical methods that are widely used in economics, finance, accountancy, marketing and, more generally, business. Emphasis is placed on drawing inferences from sample data to arrive at informed decisions. In the computing segment of the course, students will learn to solve statistical problems in an Excel spreadsheet environment.

3.2 STUDENT LEARNING OUTCOMES

On completion of the course, students should be able to correctly identify and solve simple statistical problems, properly choose statistical methods to make basic inference from a sample, and competently present and interpret the results of simple statistical analysis.

The course aims to provide benefits to students in terms of:

1. The ability to summarize and present the characteristics of a sample of data as a basis for informed decision-making;
2. The ability to formulate and evaluate a business hypothesis in a statistical testing framework;
3. To critically evaluate claims based on a statistical analysis of data.
3.3 TEACHING AND LEARNING STRATEGIES

The examinable content of the course comprises topics covered in lectures and tutorials.

3.3.1 LECTURES

The purpose of lectures is to provide a logical structure for the topics that make up the course, to emphasise the important concepts and methods of each topic, and to provide relevant examples to which the concepts and methods are applied. As not all topics will be presented extensively, students should refer to the textbook for further details and be sure to attempt the assigned tutorial exercises. The topics covered in lectures are frequency distributions, measures of central tendency and dispersion, introductory probability theory, discrete and continuous probability distributions, point and interval estimations of population parameters, hypothesis testing and basic regression analysis.

3.3.2 TUTORIALS

The object of the tutorials is to discuss various approaches to, and issues associated with the assigned exercises and topics covered in the course. There is a separate document containing the exercises which are to be covered in tutorials. A number of these exercises are intended to be challenging so as to stimulate questions and discussion. Therefore students should not feel inadequate if they have difficulty solving all the exercises before attending their tutorial. However, it is important that students attempt the assigned exercises before the corresponding tutorial sessions.

In addition to the assigned tutorial exercises, the tutorial document contains a list of suitable practice questions from the textbook. Students who think they need more practice in certain topics may like to attempt these practice questions.

Note that the STATISTICAL TABLES that appear at the end of the tutorial document are the same tables that will be provided on the mid-session and final examination papers.

Note that the two pages of USEFUL FORMULAE that appear in the tutorial document will be provided on the final examination paper.

If there are any remaining problems after the tutorial they can be taken up at PASS groups or with tutors on duty in the John Goodsell Building (see below) or with staff members teaching QMB during their consultation times.

3.3.3 CONSULTATION WITH STAFF

Students are encouraged to ask questions related to this course during tutorials. Those requiring extra assistance may take advantage of the times especially reserved by staff for consultation. A list of these will be posted on the QMB website and on the doors of teaching staff in this subject who possess an office. All consultations with part-time staff without an office will be held in JG G18 (see below).
3.3.4 TUTOR ASSISTANCE (PITSTOP)

From Week 4, students in QMB and other large first year classes run by the School of Economics will be able to consult tutors on duty in the John Goodsell Building almost all day from Monday to Thursday in Room G18. Tutors will be on duty there from 10am to 6pm, Monday to Thursday, from week 4 until the final examinations, excluding the mid-session break. This means that instead of having to wait until your tutor’s or lecturer’s office hours, you will be able to get help as soon as you run into a problem in your study. The tutors can also be reached by phone on 9385 1653 or by email at tutcentre@unsw.edu.au. Tutors will help over the phone or through e-mail when they can, but will give priority to students who attend in person. A timetable of tutors on duty will be posted on the door of room JG G18.

3.3.5 PEER ASSISTANCE SUPPORT SCHEME (PASS)

This scheme commences in Week 3 and consists of study groups run by second and third year students which QMB students are able to join on a voluntary basis. Many students have found PASS helpful as it provides both extra problems for practice and advice from experienced students. It also provides an informal atmosphere with the opportunity to ask any questions that students may be hesitant to ask staff. More information, including the times of PASS groups, is expected to be distributed during Week 2 lectures. A list of times will also appear on the course website and the on the notice board, second floor, of the John Goodsell building.

To obtain more information about the PITSTOP and PASS support schemes, go to the School of Economics web page at www.economics.unsw.edu.au. Click on Current Students and then under Learning Aids click on the link to the PITSTOP and similarly to PASS.

3.3.6 LEARNING STRATEGIES

An ‘ideal’ learning strategy (on which provision of the course materials is based) might include:

(i) Prior to attending a lecture, download and read the lecture notes for your lecture and bring them with you to the lecture. The lecture notes of each lecturer are available for downloading on the QMB website.

(ii) Attend the lecture. The lecture notes form the basis for the lecture. Key concepts will be emphasised and demonstrated through worked examples.

(iii) Prior to attending tutorials, attempt the assigned questions for that week. Do not be discouraged if you cannot answer all of the questions as some questions are more difficult than others. Attempting the assigned tutorial questions will provide a self-test of your understanding of particular topics and identify those topics which may require further attention. Tutors will work through the assigned tutorial questions each week.
4. STUDENT RESPONSIBILITIES AND CONDUCT

4.1 WORKLOAD

It is expected that you will spend at least ten hours per week studying this course. This time should be made up of reading the lecture notes and textbook, working on tutorial and computer exercises, and attending classes.

Over-commitment has been a cause of failure for many students. You should take the required workload into account when planning how to balance study with employment and other activities.

4.2 ATTENDANCE

Your regular and punctual attendance at lectures and tutorials is expected in this course. University regulations indicate that if students attend less than eighty per cent of scheduled classes they may be refused final assessment.

4.3 GENERAL CONDUCT AND BEHAVIOUR

You are expected to conduct yourself with consideration and respect for the needs of your fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students may be asked to leave the class. More information on student conduct is available at: www.my.unsw.edu.au

4.4 KEEPING INFORMED

You should take note of all announcements made in lectures, tutorials or on the course website. In particular you should check “Announcements” on the course website at least once a week. From time to time, the University will send important announcements to your university e-mail address without providing you with a paper copy. You will be deemed to have received this information.

5. ASSESSMENT

5.1 FORMAL REQUIREMENTS

In order to pass this course, you must obtain a total mark of at least 50 out of a maximum of 100. The total mark is the sum of all coursework and final exam marks. Coursework consists of one quiz, a mid-session exam and lab attendance work during session.
5.2 ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Assessment Component</th>
<th>Percentage of total mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance at computing laboratory classes</td>
<td>5%</td>
</tr>
<tr>
<td>Mid-session examination</td>
<td>25%</td>
</tr>
<tr>
<td>Quiz mark</td>
<td>5%</td>
</tr>
<tr>
<td>Final examination</td>
<td>65%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

5.2.1 LAB WORK ASSESSMENT

A maximum of 5 marks will be awarded for attending and doing satisfactorily all the four lab sessions prescribed. Any lab session missed without good reason will entail the loss of 1.25 marks. Missing all four lab sessions without providing satisfactory explanation to the lecturer-in-charge will mean a zero mark for lab attendance work.

The purpose of the assessment is to encourage students to work with the statistical features of the software program EXCEL to solve statistical problems.

5.2.2 MID-SESSION EXAM

The mid-session examination will consist of 25 multiple choice questions to be answered in 75 minutes. The mid-session exam will test topics in lectures Weeks 1 – 6 inclusive. Each correct answer is awarded 1 mark. Marks will not be deducted for incorrect answers.

The mid-session exam will be held during WEEK 8 (12-16 September). The exact day, time and location of the exam will be announced in lectures and tutorials of the week preceding the exam, and will also be posted on the course website. Note that the statistical tables that appear at the end of the tutorial document will be provided on the mid-session examination paper.

The purpose of the mid-session exam is to test fundamental knowledge of statistical concepts and the ability to apply statistical reasoning to solve simple problems.

There is no provision for a supplementary examination for students who are unable to attend the mid-session examination at the designated time and place. If an illness prevents such attendance, full documentary evidence must be sent to the Registrar of the University within 3 days of the examination. A copy of the evidence must also be sent to the Lecturer-In-Charge, Lance Fisher. If such evidence is approved, the final examination will then account for 90% of the total mark for the subject. Note that employment obligations of any kind are not acceptable reasons for absence from any examination or quiz.

PLEASE NOTE THAT THERE WILL BE NO LECTURES, TUTORIALS OR LAB CLASSES DURING WEEK 8 (12-16 SEPTEMBER) OF SESSION BECAUSE OF THE MID-SESSION EXAM.
5.2.3 TUTORIAL QUIZ

One 15-minute quiz will be conducted during tutorials in the week commencing October 17 (WEEK 12). The quiz will consist of one or two problems similar to the tutorial exercises assigned in previous weeks. The quiz will examine topics from Lectures Weeks 5 to 9 inclusive.

Students must attend their usual tutorial for the quiz. Changes will only be permitted in case of severe illness or other exceptional circumstances. In these circumstances, contact the lecturer in charge, Lance Fisher. Also, if a student does not show up for the quiz, he/she must provide an explanation in writing setting out the reason(s) for missing the quiz to the lecturer-in-charge. Otherwise, a zero mark will be awarded for not taking the quiz.

The purpose of the quiz is to test knowledge of statistical distributions and statistical inference.

5.2.4 FINAL EXAMINATION

The final examination will consist of five compulsory questions on topics from the whole course. It will be a THREE hour examination and will be held during the University’s final examination period in November. Note that the statistical tables that appear at the end of the tutorial document will be provided on the final examination paper. The two pages of useful formulae that are included in the tutorial document will be provided on the final examination paper.

The purpose of the final examination is to assess knowledge of statistical concepts, to draw appropriate inferences from samples of data and to arrive at decisions that can be justified on statistical grounds.

5.3 SPECIAL CONSIDERATION AND SUPPLEMENTARY EXAMINATIONS

5.3.1 SPECIAL CONSIDERATION

If you believe that your performance in a subject, either during session or in an examination has been adversely affected by sickness or other adverse circumstances, you should notify the Registrar and ask for special consideration in the determination of your results.

Requests for special consideration must be accompanied by appropriate documentation. They should be made as soon as practicable after the problem occurs and within three working days of the assessment to which it refers. Applications made more than three working days after the assessment component will only be considered in exceptional circumstances.

Special consideration request forms and details of required documentation are available from NewSouth Q, program and course offices, and from the web site www.student.unsw.edu.au. The completed application form must be submitted to NewSouth Q.
5.3.2 APPLICATIONS FOR SPECIAL CONSIDERATION

Applications are only accepted in the following circumstances:

1. Except in unusual circumstances, a problem involving a minimum of 3 consecutive days or a total of 5 days within the teaching period of a semester is considered sufficient grounds for an application.

2. The circumstances have to be unexpected and beyond your control. Students are expected to give priority to their university study commitments and any absence must clearly be for circumstances beyond your control. WORK COMMITMENTS ARE NOT CONSIDERED A JUSTIFICATION.

3. An absence from an examination should be supported by a medical certificate or other document that clearly indicates you were unable to be present.

4. A student absent from an examination or who attends an examination and wants to request special consideration is normally required to provide a medical certificate dated the same day as the examination.

Full information is available at www.student.unsw.edu.au. For more details on this matter of SPECIAL CONSIDERATION, see also UNSW Undergraduate Handbook 2005, pp. 25-26.

5.3.3 SUPPLEMENTARY EXAMINATION FOR FINAL EXAMINATION

Students should be aware that lodgement of a request for special consideration in the final examination does not guarantee the granting of a supplementary exam. Supplementary examinations will only be recommended by the School of Economics for students whose final examination performance has been affected by serious illness or other extraordinary circumstances which can be documented AND if there is evidence on the basis of performance during the session (based on the student’s mid-session and quiz mark) that the student has made satisfactory progress as deemed by the lecturer-in-charge.

The supplementary exam will be of a similar format to that of the final examination.

5.3.4 DATE OF SUPPLEMENTARY EXAMINATION

The supplementary examination for this subject will be held in early December 2005 (the exact date is not yet determined). It is the responsibility of students who apply for special consideration to make themselves available for the examination if they are offered a supplementary examination. Holiday plans are not acceptable as reasons for non-availability. Students who apply for special consideration should frequently check their university e-mail for information about the supplementary examination.
6. ACADEMIC HONESTY AND PLAGIARISM

Students are reminded that the University regards academic misconduct/dishonesty as a very serious matter. Students found guilty of academic misconduct are usually excluded from the University for 2 years. Because of the circumstances in individual cases, the period of exclusion can range from one session to permanent exclusion from the University.

The following are some of the actions which have resulted in students being found guilty of academic misconduct in recent years:

1. Taking unauthorised materials into an examination.
2. Submitting work for assessment knowing it to be the work of another person.
3. Improperly obtaining prior knowledge of an examination paper and using that knowledge in the examination.
4. Failing to acknowledge the source of material in an assignment.

For more details on this matter of ACADEMIC MISCONDUCT, see the UNSW Undergraduate Handbook 2005, pp. 26-28.

The University regards plagiarism as a form of academic misconduct, and has very strict rules regarding plagiarism. For full information regarding policies, penalties and information to help you avoid plagiarism see: www.my.unsw.edu.au/student/atoz/Plagiarism

Plagiarism is the presentation of the thoughts or work of another as one’s own.* Examples include:
- direct duplication of the thoughts or work of another, including by copying work, or knowingly permitting it to be copied. This includes copying material, ideas or concepts from a book, article, report or other written document (whether published or unpublished), composition, artwork, design, drawing, circuitry, computer program or software, web site, Internet, other electronic resource, or another person’s assignment without appropriate acknowledgement;
- paraphrasing another person’s work with very minor changes keeping the meaning, form and/or progression of ideas of the original;
- piecing together sections of the work of others into a new whole;
- presenting an assessment item as independent work when it has been produced in whole or part in collusion with other people, for example, another student or a tutor; and,
- claiming credit for a proportion a work contributed to a group assessment item that is greater than that actually contributed.†

Submitting an assessment item that has already been submitted for academic credit elsewhere may also be considered plagiarism.

The inclusion of the thoughts or work of another with attribution appropriate to the academic discipline does not amount to plagiarism.

Students are reminded of their Rights and Responsibilities in respect of plagiarism, as set out in the University Undergraduate and Postgraduate Handbooks, and are encouraged to seek advice from academic staff whenever necessary to ensure they avoid plagiarism in all its forms.
The Learning Centre website is the central University online resource for staff and student information on plagiarism and academic honesty. It can be located at: www lc.unsw.edu.au/plagiarism

The Learning Centre also provides substantial educational written materials, workshops, and tutorials to aid students, for example, in:
- correct referencing practices:
  - paraphrasing, summarising, essay writing, and time management;
  - appropriate use of, and attribution for, a range of materials including text, images, formulae and concepts.

Individual assistance is available on request from The Learning Centre. Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items.

* Based on that proposed to the University of Newcastle by the St James Ethics Centre. Used with kind permission from the University of Newcastle
† Adapted with kind permission from the University of Melbourne.

7. STUDENT RESOURCES

7.1 COURSE WEBSITE

The Quantitative Methods B website may be found among others of your courses at: http://www.webct.unsw.edu.au

If you are a student with a UNSW student ID, your Username is a lower case "z" followed by your 7 digit student ID number (eg z1234567). Your password is your UniPass.

The Website contains: (a) the course outline and the tutorial and computing documents; (b) the lecture notes of each lecturer; (c) answers to the assigned tutorial questions; (d) sample exam questions and answers; (e) mid-session exam marks; (f) quiz and computing marks and (f) course announcements.

Students should consult this website at least once a week as it contains important information about the course. It will be assumed that all students have seen any notice posted on the course website. A WebCT Student Orientation Document booklet can be found at: http://economics.web.unsw.edu.au/courses/HTML/webct_guide.pdf

7.2 TEXTBOOK AND READINGS

The required textbook for this course is:

Several copies of the textbook and Student Solutions Manual for Keller, 7th Edition, will be placed in Open Reserve. This contains worked solutions to even numbered exercises from the textbook.

The publishers provide a range of support material for the textbook, including a CD-ROM containing a study guide and a website. Information on accessing this support material is provided in the preface to the text.

While the support material may provide useful additional assistance to your study of the subject matter, the support material is not required reading. Students must make their own judgement as to whether accessing and using the support material is worthwhile. The examinable content of the textbook is defined by the readings from the textbook in the lecture schedule given below.

The following books, available in the Open Reserve Section of the library, are also useful references for certain parts of the course.


7.3 OTHER RESOURCES, SUPPORT AND INFORMATION

The University and the Faculty provide a wide range of support services for students, including:

- Learning and study support;
- Counselling support;
- Library training and support services;
- Disability support services;

7.3.1 EDUCATIONAL DEVELOPMENT UNIT

Additional learning support, tailored to the needs of FCE students, is available from the Education Development Unit (EDU) in the Faculty. The EDU offers a range of services for FCE students including: (a) academic skills workshops run throughout the session; (b) printed and on-line study skills resources e.g. referencing guide, report writing and exam preparation; (c) a drop-in resource centre containing books and audio visual material that may be borrowed; (d) a limited consultation service for students with individual or small group learning needs.

More information about the EDU services including on-line resources, workshop details and consultation request forms are available from the EDU website.

Contacts and location:
EDU Web: http://education.fce.unsw.edu.au
EDU Location: Room 2039, Level 2 Quadrangle Building
EDU services are free and confidential and are available to students of the Faculty of Commerce and Economics.
7.3.2 OTHER UNSW SUPPORT

In addition to the EDU services, the UNSW Learning Centre provides academic skills support services for students. The Learning Centre is located on Level 2 of the Library and can be contacted by Phone: 9385 3890 or through their website: www.lc.unsw.edu.au.

Students experiencing problems of an academic or personal nature are encouraged to contact the Counselling Service at UNSW. This service is free and confidential and run by professional counsellors. The Counselling Service is located on Level 2, Quadrangle East Wing, and can be contact on 9385 5418.

Those students who have a disability that requires some adjustment in their teaching and learning environment are encouraged to discuss their study needs with the Lecturer in Charge or with the Equity Officer (Disability) prior to, or at the commencement of, their course. The Equity and Diversity Unit can be contacted through 93854734 or www.equity.unsw.edu.au/disabil.html.

Students should be aware of Faculty Occupational Health and Safety policies and expectations. Information can be found at: www2.fce.unsw.edu.au/nps/servlet/portservice?GI_ID=SystemLoggedOutInheritable Area&maxWnd= Staff Info OHS

8. CONTINUAL COURSE IMPROVEMENT

Each year feedback is sought from students and other stakeholders about the courses offered in the School and continual improvements are made based on this feedback. UNSW's Course and Teaching Evaluation and Improvement (CATEI) Process (http://www.ltu.unsw.edu.au/ref4-5-1_catei_process.cfm) is one of the ways in which student evaluative feedback is gathered.

9. LECTURE SCHEDULE

<table>
<thead>
<tr>
<th>Week of Teaching</th>
<th>Topics</th>
<th>Textbook Reading (7th edition) unless otherwise indicated</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (July 25-29)</td>
<td>Descriptive statistics; frequency distributions and histograms; shapes of distributions; measures of central tendency: the mean, mode and median.</td>
<td>1.1 to 1.4; 2.1 to 2.3; 4.1</td>
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<tr>
<td>Week of Teaching</td>
<td>Topics</td>
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<tr>
<td>2 (Aug 1-5)</td>
<td>Quartiles and percentiles; measures of dispersion: range, mean absolute deviation, standard deviation; Chebyshev’s theorem; coefficient of variation; probability theory: basic set theory, statistical experiments, axioms of probability.</td>
<td>4.2 to 4.3; 6.1</td>
</tr>
<tr>
<td>3 (Aug 8-12)</td>
<td>Conditional probability; independent events; sampling with and without replacement; Bayes’ theorem.</td>
<td>6.2 to 6.5 Kenkel 5.5 to 5.7.</td>
</tr>
<tr>
<td>4 (Aug 15-19)</td>
<td>Counting techniques; random variables and discrete probability distributions.</td>
<td>7.1 Kenkel 5.8</td>
</tr>
<tr>
<td>5 (Aug 22-26)</td>
<td>Binomial distribution; Poisson distribution; continuous probability distributions; uniform distribution.</td>
<td>7.4 to 7.5; 8.1</td>
</tr>
<tr>
<td>6 (Aug 29-Sept 2)</td>
<td>Normal distributions; calculating areas under the normal curve; normal approximation to the binomial; concept of an estimator; properties of estimators.</td>
<td>8.2; 9.2 pages 290-294; 10.1</td>
</tr>
<tr>
<td>7 (Sept 5-9)</td>
<td>Sampling distribution of the sample mean, central limit theorem; Concept of a confidence interval; interval estimation of the population mean when the population variance is known; selecting the sample size.</td>
<td>9.1; 10.2 to 10.3</td>
</tr>
<tr>
<td>8 (Sept 12-16)</td>
<td>Mid-session exam held in Week 8. There are no lectures (or tutorials) this week. Day, Time and Location of mid-session exam to be announced.</td>
<td></td>
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<tr>
<td>9 (Sept 19-23)</td>
<td>The idea of hypothesis testing; type I and type II errors; hypothesis tests about the mean when the population variance is known; probability values.</td>
<td>11.1 to 11.2</td>
</tr>
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<tr>
<td>10 (Oct 3-7)</td>
<td>Calculating the probability of a type II error; the power of a test; the $t$ distribution; hypothesis testing and interval estimation of the mean when the population variance is unknown; Introduction to regression analysis</td>
<td>11.3-11.4; 12.1; 17.1</td>
</tr>
<tr>
<td>11 (Oct 10-14)</td>
<td>The correlation coefficient; the method of least squares; basic assumptions of the simple linear regression model; explanatory power of the regression equation.</td>
<td>2.4; 4.4; 17.1 to 17.3</td>
</tr>
<tr>
<td>12 (Oct 17-21)</td>
<td>Inference and prediction in the linear regression model; sampling distribution of the sample proportion; large sample interval estimation of the population proportion; hypothesis tests about the population proportion.</td>
<td>17.4-17.6; 9.2 pages 294-295; 12.3; Kenkel 15.9.</td>
</tr>
<tr>
<td>13 (Oct 24-28)</td>
<td>Chi-squared distribution; hypothesis tests for a population variance; chi-squared test of goodness of fit; chi-squared test of a contingency table.</td>
<td>12.2; 16.1-16.2</td>
</tr>
<tr>
<td>14 (Oct 31-Nov 4)</td>
<td>Complete unfinished topics. Review.</td>
<td>All the above, as a start for your preparation for the final exam.</td>
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</tbody>
</table>