STAT279 OPERATIONS RESEARCH I D1 2004 INFORMATION FOR STUDENTS

TEXT

The text for this course will be

Quantitative Decision Making (7th Ed)

by Lawrence L Lapin & William D Whisler (Duxbury Press)

All references about material covered will be to this book.

Note that in the back cover there is a CD with a new version of QuickQuant. However we will use the previous version and that is the one available in the C5C computer labs.

<u>REFERENCES</u>

Operations Research Applications and Algorithms (3d Ed)

by Winston W. L.(PWS Kent)

Operations Research: An Introduction

by H A Taha (Macmillan)

LECTURES AND PRACTICALS

Lectures in weeks 1-6 will be taken by Michael Petersons Lectures in weeks 7-13 will be taken by Sibba Gudlaugsdottir

Each week there will be

three hours of lectures - Mon 10am Wed 11am and Wed 1pm and one hour of practical. - Wed 2pm or Wed 3pm or Wed 4pm

Practicals will commence in week 2 of the semester.

The practicals are meant to be a learning exercise. Participation in the practicals is essential for your understanding of the course content and the solution of problems.

Before the practical each week you should prepare the set of problems as stipulated in the lecture in the previous week. The lecturer will go over those problems and hand out a further problem that you will work through in class.

During the **PRACTICALS** in weeks 4 and 7 you will be asked to solve a set of questions called **quizzes** made up of multiple choice questions. They will be collected and marked. The mark for the quizzes DOES count towards final assessment. Each quiz is worth 5% of the total assessment.

ASSESSMENT

Class Test

There will be a class test in this unit, worth 10% of total assessment.

The class test will be held in the Wednesday 11am **LECTURE** in **week 10**The class test is **closed book**. Relevant formulae will be given with the test papers. The class test is **compulsory** and there will be NO make up tests.

If you miss the class test you must submit relevant documentation or you may receive a fail grade for the unit. A valid absence will mean your other coursework marks will be scaled up.

The Class Test covers lecture material from weeks 1-9 inclusive and will be of 40 minutes duration.

You should bring to the test a calculator writing implements a ruler

Student Resource Centre
Division of Economic & Financial Studies
MACQUARIE UNIVERSITY

Students can pick up their marked class test papers from ERIC -C5C244. Students will have to show their student ID in order to get their papers back. Solutions to the class test will be summarised in the practicals in week 11.

The class test will enable you to get feedback and continuing information about your progress in this unit.

Quizzes

There are 2 (two) quizzes, each worth 5% of total assessment.

The quizzes will be held in the PRACTICALS in week 4 and 7.

Both the quizzes are <u>closed book</u>. Both quizzes are <u>compulsory</u> and there will be NO make up quizzes. If you miss a quiz you must submit relevant documentation or you may receive a fail grade for the unit. A valid absence will mean your other quiz will be worth double.

The first Quiz covers material from lecture weeks 1-3 inclusive.

The second Quiz covers lecture material from weeks 4-6 inclusive.

Each Quiz is of 10 - 15 minutes duration.

You should bring to the quizzes a calculator writing implements.

Students getting <u>below half marks</u> in the combined marks for the tests and quizzes will be **downgraded by one grade** from their performance in the final exam.

Quizzes will not be returned to students since they are multiple choice but the marks will be published on the statistics notice board in the week after the quiz.

Final Examination

The final exam will be closed book and held during the end of year exam session. It will be worth 80% of the total assessment, and will cover the whole semesters work.

NOTE: To obtain a passing grade in the course a **satisfactory performance** will be required **in the final exam** irrespective of any marks gained during the semester. Evidence from your tests and quizzes will be used in determining the final grades.

Summary	of Assesment
Test	10%
Quiz 1	5%
Quiz 2	5%
Final Exam	80%

PLAGIARISM

Plagiarism involves using the work of another person and presenting as one's own. Any of the following acts constitutes plagiarism unless the source of each quotation or piece of borrowed material is clearly acknowledged:

- (a) copying out part of any document or audio-visual material (including computer based material)
- (b) using or extracting another person's concepts, experimental results or conclusions
- (c) summarising another person's work
- (d) submitting substantially the same final version of any material as another student in an assignment where there was collaborative preparatory work.

Encouraging or assisting another person to commit plagiarism is a form of improper collusion and may attract some penalties.

CALCULATORS

You will be able to use a non-programmable calculator in any test or exam.

SCHEDILE

		SCHEDU	LE	
WEEK	Commences	TOPIC	CHAPTER	Homework Exercise Due or TEST
1	1 March	Introduction LP Formulation	1, 8.1-6	
2	8 March	LP Formulation Graphical Solutions and QuickQuant	8.7-12 9.1-4	Homework Exercise for week 2
3	15 March	Simplex Method Sensitivity & Duality	10.1-10.5	Homework Exercise for week 3
4	22 March	Sensitivity & Duality	10.1-10.5	Quiz 1 - during PRACTICAL Homework Exercise for week 4
5	29 March	Project Planning	14.1-5, 7	Homework Exercise for week 5
6	5 April	Simulation	18.1,3,8,9	Homework Exercise for week 6
		Mid semest Monday 26 th April is		av
7	27 April	Transportation	12.1, 2,4,5,8	Homework Exercise for week 7 Quiz 2 - during PRACTICAL
8	3 May	Transshipment Assignment models Inventory Decisions	12.6,7 15.1	Homework Exercise for week 8
9	10 May	Inventory Decisions	15.2-4	Homework Exercise for week 9
10	17 May	Revision		Test - during WED 11AM LECTURE
11	24 May	Queueing	17.1-3	Homework Exercise for week 11
•			1	
12	31 May	Queueing	17.4 17.6, 17.9	Homework Exercise for week 12

Further information can be obtained from the lecturers in charge,
Mr Michael Petersons in C5C 469 or on 9850 8549.or mpeterso@efs.mq.edu.au
Ms Sibba Gudlaugsdottir in C5C 484 or on 9850 8582 or sgudlaug@efs.mq.edu.au

DO NOT REMOVE