

**STAT379 OPERATIONS RESEARCH II SEMESTER 2 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)

Chapter references about material covered will be to this book.

Some of the lecture content that is not available in the text will be supplied in the lecture notes.

REFERENCES

Operations Research Applications and Algorithms (3d Ed)

by Winston W. L.(PWS Kent)

Operations Research: An Introduction

by H A Taha (Macmillan)

Topics covered in the course will include:

Decision making under uncertainty

Game theory

Integer programming models and solutions

Markov process

Probabilistic inventory models

LECTURES

Each week there will be

three hours of lectures (Thur 6-9pm) and one tutorial.

The lectures will be taken by S Gudlaugsdottir and M Petersons

TUTORIALS

Tutorials will commence in week 2 of semester.

Tutorial attendance is compulsory and will be monitored.

**NOT ATTEMPTING ASSIGNMENTS OR
REPEATED ABSENCE FROM TUTORIALS OR
NOT SITTING THE TESTS
COULD RESULT IN EXCLUSION FROM THE COURSE
WITH A RESULTANT FAIL GRADE**

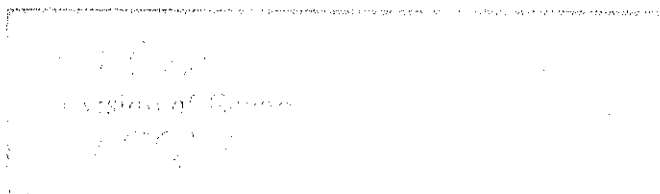
ASSIGNMENTS

There will be nine homeworks.

Homeworks will be **COMPULSORY** and due in your tutorial.

The homeworks are meant to be a learning device so you will be required to make a reasonable attempt for each homework and your attempt will be monitored.

The homework record will be used to determine borderline grades.
A poor homework record will lead to a downgrade of your SNG.



TEST

A test of one hour duration, worth 10% will be held in the lecture on
Thursday 16th September
covering all material from topics in weeks 1-6 inclusive

You may take into the test **ONE** A4 page of notes written on **ONE** side only.

Failure to attend the tests without relevant documentation to explain the absence will result in zero marks being awarded for the test and the possibility of exclusion from the unit.

NOTE: There will be **no** make up test if the original test is missed.

EXAMS

The final exam will be held during the end of year exam session.
It will be worth 90% of the course assessment and will cover the whole semesters work.

You will be allowed to take into the exam **ONE** A4 page of notes written **both** sides.

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 homework attempts and tutorial attendance and participation will be used in determining the final grades.

COMPUTING

Computing in this unit will be restricted to using the linear programming package **Quickquant** (see p1191-1204 of 6th edition of Lapin for a guide) and interpreting the output.

The computer rooms you should use are C5C 215 and C5C 217.

CALCULATORS

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

SCHEDULE

	Week Commencing	TOPIC	CHAPTER	Homework Due or TEST
1	2 August	Inventory Models	15 + 279 revision	
2	9 August	Inventory Models	16	Homework 1
3	16 August	Inventory Models	16	Homework 2
4	23 August	Game Theory	28 -6 th Ed	Homework 3
5	30 August	Game Theory	28 -6 th Ed	Homework 4
6	6 September	Markov Process	30 -6 th Ed	Homework 5
7	13 September	Test in lecture time		Test
Mid semester break				
8	4 October	Integer Programming	11.1 + Lecture Notes	Summary of test solution in tutorial
9	11 October	Integer Programming	Lecture Notes	Homework 6
10	18 October	Decision Making	6 + Lecture Notes	Homework 7
11	25 October	Decision Making	6	Homework 8
12	1 November	Decision Making	5	Homework 9
13	8 November	Revision		

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.

Any questions should be directed initially to your tutor. Further information can be obtained from the lecturers in charge, Mr Michael Petersons in C5C 469 or on 9850 8549 or Ms Sibba Gudlaugsdottir in C5C 456 or on 9850 8582.

DO NOT REMOVE
THE STAPLES