



The University of Southern Queensland

## Course specification

### Description: Advanced Optimisation

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
MAT	8200	35200	2, 2004	ONC	1.00	TWMBA

<b>Academic group:</b>	FOSCI
<b>Academic org:</b>	FOS003
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	010101

### STAFFING

Examiner: Ashley Plank

Moderator: Tony Roberts

### SYNOPSIS

This course flexibly covers advanced topics in optimisation theory and applications such as linear, integer, nonlinear, dynamic and/or stochastic programming. Further it covers selected topics from game theory in economics, heuristic problem solving such as genetic algorithms for stochastic optimisation, and other powerful methods of constrained and unconstrained nonlinear optimisation. Enrolment requires the approval of the examiner. This course is normally offered only in odd years.

### TEXT and MATERIALS required to be PURCHASED or ACCESSED:

**ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).**

### REFERENCE MATERIALS:

**Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.**

**ASSESSMENT DETAILS**

Description	Marks out of	Wtg(%)	Due date
TO BE ADVISED	100.00	100.00	20 Jul 2004