

Victoria Management School

MMBA 508 PROBLEM SOLVING & DECISION MAKING

Trimester One 2010

COURSE OUTLINE

CONTACT DETAILS

COURSE COORDINATOR

Dr Jim Sheffield

Room:RH902, Rutherford HousePhone:463 5085Email:jim.sheffield@vuw.ac.nzWebsite:www.vuw.ac.nz/vms

LECTURER

A/Prof Bob	Cavana
Room:	RH 904, Rutherford House
Phone:	463 5137
Email:	bob.cavana@vuw.ac.nz
Website:	www.vuw.ac.nz/vms

PROGRAMME ADMINISTRATOR

Linda Walker

Room:Rutherford RH 1004Phone:463-5367Email:linda.walker@vuw.ac.nzFax:463-5084

ADMINISTRATOR FOR

JIM SHEFFIELD AND BOB CAVANA Luisa Acheson Room: RH 919, Rutherford House Phone: 463 5381 Email: <u>luisa.acheson@vuw.ac.nz</u>

Fax: 463-5084

Withdrawal dates: Late withdrawals with Associate Dean (Students) permission

(See Section 8: Withdrawals - from the Personal Courses of Study Statute)

http://policy.vuw.ac.nz/Amphora!~~policy.vuw.ac.nz~POLICY~00000001743.pdf

Withdrawal dates: refunds:

http://www.victoria.ac.nz/home/admisenrol/payments/withdrawlsrefunds.aspx

CLASS TIMES AND ROOM NUMBERS

Start Date:	Monday, 1 March 2010	
Lecture Times:	Mondays, 5:40 – 7:30pm	
Location:	Rutherford House LT 3	
Format:	One two-hour session each week.	

Teaching Period: Monday 1st March – Friday 4th June 2010

Study Period: Monday 7th June – Thursday 10th June 2010

Final Examination Period: 11th – 30th June 2010 [3 hour closed book exam]

Introduction

The Master of Business Administration Programme serves to produce professional managers capable of fulfilling strategic roles within corporate and government enterprises. Integral to this capability is an understanding of the dynamics of human behaviour in organisational settings.

The essential focus of this course is to build an understanding of problem-solving and decision-making processes. The course provides a multiple perspective approach to the framing and solution of problems, and critically examines alternative approaches to managerial decision-making, allowing students to develop insights and understanding about the nature of problem-solving and decision-making. The aim of the course is to provide students with an introduction to a range of relevant ideas and issues that will allow for the development of competencies to improve their problem solving and decision-making processes.

Course Objectives & Related Content

The course has several objectives, some of which include:

- understanding the variety of ways in which decisions are and can be made
- understanding the role and impact of risk, uncertainty, ambiguity, preferences, judgement on decision-makers and decision-making
- understanding the roles of intuition and analysis in decision-making
- exploring ways of approaching a range of typical problems and decision situations
- improving your competence in structuring problems using formal and informal methods
- applying systems thinking concepts to managerial decision making
- developing your analytical skills in data handling and interpretation
- heightening your awareness of the problem-solving process inherent in decision-making
- exposing you to a range of problems and decision-making situations ...
- ... in different functional areas of management, at strategic and operational levels
- developing familiarity with typical decision trade-offs & evaluation techniques
- familiarising the student with the use of the computer-aided methods in decision making
- developing an ability to devise robust strategies and make balanced decisions.

General Learning Objectives

On successful completion of the course, you should be able to:

- demonstrate an understanding of the major frameworks and concepts ...
 - ... under-pinning successful problem-solving and decision analysis
- use such frameworks to develop an understanding of managerial decision situations
- demonstrate competence in using a range of methods in problem solving & decision-making.

Specific Learning Objectives

On successful completion of the course, you should be able to:

- demonstrate an awareness of the frames you use in making a decision
- consciously change frames
- demonstrate an awareness of the common pitfalls in decision making and the limitations of intuitive decision making
- demonstrate an informed decision making style
- structure a managerial decision problem in appropriate ways
- identify key factors and relationships in a decision and
 - ...structure the problem to explore such relationships, and in doing so
 - \dots develop an enhanced understanding of a problem, the impact of possible actions &
 - ... draw valid conclusions.

Week	Lecturer	Topics	Readings
Dates			(* = textbook)
W1	BC	Course Overview	Gore, Murray & Richardson (1992)
1 Mar		Intro to Systems Thinking	Dearlove (1998)
		Decision processes & models	Daellenbach (1994)
		Problem structuring	* Maani & Cavana (2007), Ch 1 & 2
W2 8 Mar	BC	Causal loop diagrams Dataviour over time shorts	* Maani & Cavana (2007) Ch 3, pp 28-39, 52-58, & Case 1
0 10 10		Behaviour over time charts	Cavana, Boyd & Taylor (2007)
			Sterman (2000)
W3	BC	Systems archetypes	Senge (1990)
15 Mar		Group model building	Sterman (2000)
			* Maani & Cavana (2007) Ch 3, esp. pp39-51, Ch 7 & Case 3
W4	BC	Decision Analysis	Target (1996) Ch 3
22 Mar		• Review of probability concepts	Ragsdale (2008) Ch 15
		• Payoff tables	
W5	BC	Decision trees	Target (1996) Ch 3
29 Mar		Sensitivity analysis	Ragsdale (2008) Ch 15
Assignment 1 Due		Policy analysis	Cavana (2004)
		Mid-Trimester	Break
W6	JS	Intro to Human Decision Behaviour	Morse (2007)
19 Apr		• Judgment and desire in	Bazerman (2006)
		managerial decisions	Russo & Schoemaker (2002)
		Winning managerial decisions	
W7	JS	Biases and heuristics	Pfeffer & Sutton (2007)
26 Apr		Framing decision problems	Bazerman (2006)
			Russo & Schoemaker (2002)
W8	JS	Roles in organizational decisions	Rodgers & Blenko (2007)
3 May		Improving individual/group decision behaviour	Bazerman (2006)
11/0	TS		Russo & Schoemaker (2002)
10 May	72	Common investment mistakes	Bazerman (2006)
10 May			
W10	JS	Managing projects	
17 May		Critical Path Scheduling	Newbold (1998)
W11	JS	Critical Chain Scheduling	
24 May			Srinivasan (2007)
Assignment 2 due			
W12	JS / BC	Integration	
31 May		Course review	
		• Exam briefing	

MGMT 508 - Weekly Schedule 2010

* Key to Lecturers: BC = Bob Cavana, JS = Jim Sheffield

Approach

- 1 Course activities are structured so that you may **learn by 'doing and using.'**
- 2 **Case studies** and assignments will provide the opportunity to **develop skills**, knowledge and understanding.
- 3 Class contact will comprise an integrated mix of lecture, discussion and exercises.

Lectures will focus on bringing out the central issues and providing students with a range of illustrative situations and models, rather than covering materials found in the readings. You may therefore find it beneficial to 'go over' the week's readings in advance of class when advised to do so.

Problems

Students wishing to discuss any matters affecting or relating to the course should contact Jim Sheffield.

Assessment

A student's overall grade in the course will be determined in the following manner:

1 Terms Work

Assignments

There will be two (2) assignments, each worth a maximum of 25 marks (See 5 below).

Assignment 1: due Monday March 29th 2010 - at 5:40pm - Group systems thinking project [The Assignment 1 group management report will contain 15% group

assessment and 10% individual reflections]

Assignment 2: due Mon 24th May 2010 - at 5:40pm - Individual decision framing exercise

[Further details of both assignments will be provided in class and on Blackboard]

Mandatory Terms Requirements

- comprise:

(i) submission of **all** assignments / reports **on the due dates**

- (ii) obtaining **at least 40%** of the marks available to assignments
- (iii) participation in one full day equivalent Numeracy Skills Workshop
- Students who fail to satisfy the mandatory requirements [(i) to (iii)] for this course but who obtain 50% or more overall, will be awarded a "K" grade.
- Standard fail grades (D or E) will be awarded when the student's overall course mark falls below the minimum pass mark, whether or not the mandatory course requirements have been satisfied.

For example, a student who obtains an overall course mark of 35 and does not fulfil one or more of the mandatory course requirements will be given an E grade. A student who fails to sit an examination will have their course mark calculated with an entry of Zero for the exam and their grade determined in the usual way.

- Notice of Failure to meet Mandatory Requirements i) to iii) will be posted on Blackboard or on the Mezzanine Floor Notice-board. Students will be expected to check both places for notification.

2 Exam

A Closed Book Test will be conducted in the June **Exam period:** $11^{th} - 30^{th}$ June (inclusive). Students who enrol in courses with examinations are obliged to attend an examination at the University at any time during the formal examination period.

The examination is worth 50% of the total marks available for this course.

- the pass mark for the test will be 40%.

Silent calculators may be used in the exam, but computers are **not** permitted.

3 Overall Grade

Your overall grade will be found by combining your terms mark and test/exam mark in a 50:50 ratio.

4 Overall Pass Mark

- will be 50% of the total marks available.

5 Individual & Group Work

While the MBA programme has a tradition of study group collaboration, there are important elements in the assessment process that are strictly individual. You will be expected and encouraged to work in groups on in-term cases and assignment 1. Collaboration on assignment 2 is <u>not</u> allowed beyond general discussion as to how one might interpret the nature of the assignment question. Please do not work together to formulate a response and do not loan out your completed assignments.

6 Grading Guidelines

The following broad indicative characterisations of grade will apply in grading:

Excellent Category A- (75 – 79%) to A (80 – 84%) to A+ (85% and above): The learning is demonstrated to a very high level of proficiency, i.e. it is at a standard that makes it exceptional at Master's level.

Very Good Category B+(70-74%): The learning is demonstrated at a high standard. Students have reached a level that clearly exceeds "competency".

- Good Category B (65 69%): The learning is clearly demonstrated without being exceptional in any way. Students can be thought of as fully competent.
- Satisfactory Category B- (60 64%): The learning is demonstrated without being exceptional in any way. Students can be thought of as competent.
- Marginal Category C (50 54%) to C+ (55 59%): The learning is demonstrated to a minimally acceptable level. There may be flaws but these are not serious enough to "fail" the student.
- Unsatisfactory / Failure Category E(0-39%) to D(40-49%): The learning is absent or performed to a very low level, or the performance is seriously flawed.
- Ungraded Failure K Failure to achieve mandatory course requirements and have achieved at least an average "C" over all the assessment.

7 Handing in assignments

Assignments should be submitted in hard copy form in class, by the due time on the due date. Assignments received after that time will be deemed to be late, and must be handed to the lecturer concerned or to RH Level 10 Reception.

All Hand-Ins should have: an Assignment Cover Sheet stating your name, the course name, lecturer's name, assignment name and number, a word count and due date. You should also put page numbers on each page, and use in-text referencing and include a list of references at the end. Preferred referencing style is APA system.

Students will prepare two copies of each hand-in and keep a second copy for their own reference and for use during the tutorial. Students must also keep an electronic copy of their work.

Word limits should be adhered to, especially so when they provide a guide to limiting the student's coverage of a topic.

8 Penalties - for Lateness & Excessive Length of Assignments

(i) In fairness to other students, work submitted after any deadline will incur a penalty for lateness.
The penalty is 2 of the marks available for an assignment submitted after the due time on the due date for each part day or day late.

When calculating the late penalty **Saturdays**, **Sundays and public holidays will be included** when counting the number of days that an assignment is late.

Assignments received more than 7 days after the deadline will not be accepted and the student will automatically fail terms.

 (ii) Course Outlines provide a signal to students of forthcoming workload, dates of submission etc, and thus student study plans should take account of course requirements across all courses. Consequently, workload issues related to other courses and employment will not be accepted as reason for dispensation from mandatory requirements or waiver of penalties.

Extensions to submission deadlines for any assigned work will only be granted in exceptional circumstances.

(iii) Students who are unable to comply with any of the mandatory requirements should make a written application for an extension to the due date for submission of assigned work or for waiver of a penalty, **in advance**, to the Course Coordinator, providing documentary evidence of the reasons of their circumstances.

All such applications must be made **before** the deadline and be accompanied by documentary evidence, eg a medical certificate, or counsellor's report that indicates the degree of impairment, and for how long the student has been impaired. Please be sure to ask at the time of consultation for the degree of impairment to be stated in any certificate you provide to support your case.

- (iv) In the event of unusual or unforeseeable circumstances (e.g. serious illness, family bereavement), that precludes an application in advance, students should make contact with the Tutorial Coordinator as soon as possible, and make application for waiver of a penalty as soon as practicable.
- (v) Word limits should be adhered to, especially so when they provide a guide to limiting the student's coverage of a topic.

Expected Workload

A total of 150 hours of work is expected from students in this 15-point course. Students can expect the workload to be approximately 10hrs per week including both scheduled contact time and outside class.

Communication

As you will learn from all papers or courses offered by VMS, good communication is crucial to the success of any organisation, programme or course. Communication in this course will be conducted in face-to-face mode in the lectures as well as through the **Blackboard** system.

Notices - Communication of Additional Information

Information on course-related matters will be announced at class and posted on the **Blackboard** website at <u>http://blackboard.vuw.ac.nz/</u>. It will be crucial for you to regularly check Blackboard for messages, announcements and materials.

Notice of Failure to meet Mandatory Terms Requirements, as specified above in the section on Assessment, will be posted on Blackboard or on the Mezzanine Floor Notice-board. Students will be expected to check both places for notification.

Email Contact

Students wishing to contact staff by email should adhere to the following instructions:

Include the Course Code, your Name, your Student ID and the Topic in the subject area of the email, eg

MMBA_508_Smith_Pauline_3000223344_Ass1 Query

All students must use their VUW SCS email account and ID. Otherwise, email will be classified as Spam and will be dumped without being read. All emails with attachments will be dumped, unless requested by staff.

Please do not hesitate to raise an issue, as it may be a common student concern. Staff will either respond immediately, or seek clarification and then respond. If concerns remain, then the programme director should be contacted.

Text

The text for the first part of the course will be: Maani KE and Cavana RY. *Introduction to Systems Thinking*, Pearson Education, Auckland, 2009.

Supporting texts for all parts of the course include: Bazerman, M. (2006). Judgement in Managerial Decision-Making, New York: Wiley Dettmer, HW. (1997). Goldratt's Theory of Constraints - A Systems Approach to Continuous Improvement, ASQC Quality Press Ehrenberg, ASC (1982). A Primer in Data Reduction, London: Wiley Eiser, JR & Van der Pligt, R (1988). Attitudes & Decisions, London: Routledge Goldratt, EM. (1994). It's Not Luck, Great Barrington: North River Press Goldratt, E & Cox, J (1992). The Goal, 2nd Ed, Croton-on-Hudson: North River Press Harvard Business School Press on Making Smarter Decisions (2007) Hicks, MJ (1991). Problem Solving in Business & Management, London: Chapman-Hall Maani, K.E. and Cavana, R.Y. (2007). Systems Thinking, System Dynamics: Managing Change and Complexity. 2nd ed. Pearson Education NZ (Prentice Hall), Auckland. Nutt, PC. (2002). Why Decisions Fail - Avoiding the blunders and traps that lead to debacles, San Francisco: Berrett-Koehler Publishers. Russo, JE & Schoemaker, PJH. (2002). Winning Decisions, New York: Fireside Russo, JE & Schoemaker, PJH. (1992). Confident Decision Making, London: Piatkus Russo, JE & Schoemaker, PJH. (1989). Decision Traps, New York: Fireside Targett, D. (1996). Analytical Decision Making, London: Pitman Targett, D. (1984). Coping with Numbers, London: Martin Robertson

Readings

Readings listed in the course schedule will be distributed in class, and students are expected to read these as indicated on the course schedule. Further resources are available in the VUW Commerce Library.

Materials and Equipment

Readings, cases and other materials will be made available, as and when necessary.

There will be no need for students to use computers during the final course examination. Silent nonprogrammable electronic calculators may be used in the final examination.

Referencing

There are many different styles of referencing and the Faculty of Commerce & Administration at VUW has decided to make APA (American Psychological Association) referencing style the common standard across the Faculty. The Commerce and Central Libraries hold the APA Style Guide. You can also access the information from the online VUW library site

(http://www.vuw.ac.nz/library/resources/virtualref.shtml#style).

Communication of Additional Information - Blackboard

Information on course-related matters will be announced at class and posted on the **Blackboard** website at <u>http://blackboard.vuw.ac.nz/</u>. It will be crucial for you to regularly check Blackboard for messages, announcements and materials.

Use of Turnitin

Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine <u>http://www.turnitin.com</u> Turnitin is an on-line plagiarism prevention tool which compares submitted work with a very large database of existing material. At the discretion of the Head of School, handwritten work may be copy-typed by the School and subject to checking by Turnitin, in addition to electronic assignment / project submissions. Turnitin will retain a copy of submitted materials on behalf of the University for detection of future plagiarism, but access to the full text of submissions will not be made available to any other party.

For the following important information follow the links provided:

Academic Integrity and Plagiarism http://www.victoria.ac.nz/home/study/plagiarism.aspx

General University Policies and Statutes http://www.victoria.ac.nz/home/about/policy

AVC (Academic) Website: information including: Conduct, Academic Grievances, Students with Impairments, Student Support http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx

Faculty of Commerce and Administration Offices http://www.victoria.ac.nz/fca/studenthelp/

Manaaki Pihipihinga Programme http://www.victoria.ac.nz/st_services/mentoring/



Victoria Management School

MMBA 508 PROBLEM SOLVING & DECISION MAKING

Trimester 1 2010

Assignment Cover Sheet

ASSIGNMENT NO. 1

TOPIC: GROUP SYSTEMS THINKING PROJECT

Due at beginning of class Monday 29th March 2010

Name:	Student ID:
Name:	Student ID:

Course Lecturer:



Victoria Management School

MMBA 508 PROBLEM SOLVING & DECISION MAKING

Trimester 1 2010

Assignment Cover Sheet

ASSIGNMENT NO.

TOPIC: INDIVIDUAL DECISION FRAMING EXERCISE

Due at beginning of class Monday 24th May 2010

Name: _____

Student ID:

Course Lecturer: _____