Description: Finance Theory and Applications

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
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<tbody>
<tr>
<td>FIN</td>
<td>2101</td>
<td>66084</td>
<td>2, 2007</td>
<td>ONC</td>
<td>1.00</td>
<td>Toowoomba</td>
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**Academic group:** FOBUS  
**Academic org:** FOB008  
**Student contribution band:** 2  
**ASCED code:** 081101

**STAFFING**

Examiner: Boyd Scheuber  
Moderator: Martin Hovey

**REQUISITES**

Pre-requisite: FIN1101 and STA2300

**OTHER REQUISITES**

Recommended: Pre-requisite FIN1103. Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at http://www.usq.edu.au/business/aboutfob.htm

**SYNOPSIS**

This course extends the material presented in FIN1101 and also introduces further more advanced theory and applications thereof. Firstly, some fundamental issues in finance such as the consumption/investment trade-off and the interaction of that decision with capital markets (under conditions of certainty) are introduced. The arithmetic of mean-variance portfolio theory is then presented. This allows portfolio theory to be developed, which then leads into the presentation of the related capital asset pricing model together with two important applications. The net present value methodology is then extended into the new and more sophisticated area of real options. The valuation of real options is further developed by way of the binomial pricing process. The important 'existence' issue of an optimal capital structure is then examined by way of the propositions resulting from Modigliani and Miller’s analysis together with some alternative theories of capital structure. Empirical evidence on capital structure is examined and the various theories of capital structure assessed from a practical point of view. Various methods of evaluating the levered firm are then developed with emphasis given to the incidence of taxes. Finally, the interesting and important area of mergers, acquisitions and governance is explored.
OBJECTIVES

The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:

1. explain how a company’s manager can make financial decisions that will be supported by all shareholders through the existence of a capital market which in turn determines an optimal investment/dividend policy under conditions of certainty (Assignment, Examination)
2. calculate all the necessary measures of risk and return that become the building blocks of mean-variance portfolio theory (Assignment, Examination)
3. understand and apply modern portfolio theory together with the related capital asset pricing model in appropriate circumstances (Assignment, Examination)
4. understand that real options are a new and more sophisticated form of net present analysis, where the value of flexibility is taken into account and then extend real option valuation further to incorporate the binomial pricing process using the risk-neutral probability approach (Examination)
5. analyse and advise management in respect of capital structure decisions, including the major theories of capital structure (Examination)
6. outline the empirical evidence from recent studies on capital structure and assess the implications of the evidence for the trade-off, pecking order and free cash flows theories (Examination)
7. examine the interaction of the investment and financing decisions, and apply techniques for incorporating the effects of the financing decision into capital budgeting including leasing (Examination)
8. provide a framework of analysis for mergers and acquisitions and discuss the issues related to corporate control and governance (Examination).

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Consumption, investment and the capital market</td>
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<td>2. Portfolio risk/return analysis</td>
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<td>3. Portfolio theory</td>
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<td>4. CAPM and its applications</td>
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<td>5. Real options I</td>
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<td>6. Real options II</td>
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<td>7. Principles of capital structure</td>
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<td>8. Capital structure decisions</td>
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<tr>
<td>9. Investment and financing decisions</td>
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<td>10. Mergers, corporate control and governance</td>
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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).

FIN2101 study package available from the USQ Bookshop.


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.


STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
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<tr>
<td>Lectures</td>
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<tr>
<td>Private Study</td>
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<td>Tutorials</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
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<th>Due date</th>
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<tr>
<td>ASSIGNMENT</td>
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<td>30.00</td>
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<tr>
<td>2 HOUR EXAMINATION</td>
<td>100.00</td>
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</table>

(see note 1)

NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
   It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.

6. Examination information:
   This is a restricted examination. Candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the restricted examination....
for this course are: writing materials (non-electronic and free from material which could
give the student an unfair advantage in the examination); calculators which cannot hold
textual information (students must indicate on their examination paper the make and model
of any calculator(s) they use during the examination). It is essential that students attempting
this course have a quiet battery-operated non-programmable calculator, such as the Casio
fx-82TL scientific calculator, or an equivalent. Students are not permitted to take mobile
telephones, pagers or other electronic means of communication into the examination room.

7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the next examination period.

8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6 Assessment, and 5.10 Student
Academic Misconduct for further information and to avoid actions which might contravene
university regulations. These regulations can be found at
http://www.usq.edu.au/corporateservices/calendar/part5.htm. Students should also read
the Faculty of Business Policies and Procedures which can be found at

ASSESSMENT NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must submit
the assignment to the USQ. (ii) In accordance with the university's assignment extension
policy (regulation 5.6.1), the examiner of a course may grant an extension of the due date
of an assignment in extenuating circumstances. All applications for assignment extensions
must be accompanied by appropriate supporting documentation. Under no circumstances
will assignments submitted more than two calendar weeks after the due date be accepted.
(iii) Assignments are to be submitted with the appropriate assignment cover. (iv) The
examiner will not accept submission of assignments by facsimile.

2 Course weightings: Weightings of topics should not be interpreted as applying to the
number of marks allocated to questions testing those topics in an examination paper. The
examination may test material already tested in assignments.

3 Dishonest actions: (i) Any student who is alleged to have performed a dishonest action
relating to any assessment in the course will have a course of action taken against him/her
as outlined in the academic regulations. (ii) Pieces of assessment should be the work of
individual students. Joint pieces of assessment are not permitted unless written approval
has been obtained from the examiner. (iii) Dishonest action in relation to assessment
includes: copying or attempting to copy the work of others; use of or attempting to use
information prohibited from use in that form of assessment; submitting the work of another
as your own; consciously committing acts of plagiarism, that is, taking and using another's
thoughts or writings as one's own with intent to deceive, which occurs when paragraphs,
sentences, a single sentence or significant parts of a sentence which are copied directly,
are not enclosed in quotation marks and appropriately footnoted or referenced in the text;
direct quotations are not used, but text is paraphrased or summarised, and the source of
the material is not acknowledged by footnoting or other reference in the text.

OTHER REQUIREMENTS

1 Learning resources: Prescribed texts and materials (see above); recommended reference
materials (see above); printed Introductory Book*, Study Book/s*, Book/s of Selected
Readings*, and Solutions Book*; and course Website accessible via USQConnect. *part
of the study package available from the USQ Bookshop.