



# ACST603

## Principles of Finance

S3 External 2014

*Applied Finance and Actuarial Studies*

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## General Information

Unit convenor and teaching staff

Unit Convenor

Timothy Kyng

[timothy.kyng@mq.edu.au](mailto:timothy.kyng@mq.edu.au)

Contact via [timothy.kyng@mq.edu.au](mailto:timothy.kyng@mq.edu.au)

E4A614

By mutual agreement. Send an email to the Unit Convenor to arrange a time.

Credit points

4

Prerequisites

Admission to MActPrac or MCom or MEc or MIntBus or MAcc(Prof)MCom or MBioTechMCom or MIntBusMIntComm or MIntBusMIntRel

Corequisites

Co-badged status

Unit description

This unit aims to provide students with a knowledge and understanding of the principles and techniques underlying theory and practice in corporate finance. Topics include: - basic financial mathematics: interest rates, present values, future values, annuities, perpetuities; - valuation and analysis of debt and equity securities; - methods for investment evaluation and capital budgeting: NPV, IRR, PP; - financial markets and raising finance by issuing new securities; - risk and return, and the cost of capital; - capital structure and dividend policy; - derivative securities: forward, futures and option contracts, and applications to corporate finance; - corporate liabilities and international finance; and - introduction to risk management.

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

On successful completion of this unit, you will be able to:

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- develop expertise in using excel spreadsheet software to build the financial models and

perform the calculations for security valuation and corporate decision making  
demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context  
be able to explain the concepts covered in the course in a clear and concise manner and  
be able to communicate it to others effectively

## Assessment Tasks

Name	Weighting	Due
<u>Assignments</u>	20%	Week 2 & 4
<u>Assessed coursework</u>	20%	sundays of weeks 1,2,3,4,5
<u>Class test</u>	10%	Week 3
<u>Final exam</u>	50%	University Examination Period

### Assignments

Due: **Week 2 & 4**

Weighting: **20%**

Assignment 1: Available Week 1; Due Week 2

Assignment 2: Available week 3; Due week 4

The release dates and due dates may change from the above. If so we will advise students of the changes.

These are individual assignments, not group work.

Submission:

essay type responses to be submitted online via iLearn / turnitin. Excel spreadsheet solutions to be submitted electronically (method to be advised)

Extension

No extensions will be granted. Late tasks will be accepted up to 72 hours after the submission deadline. There will be a deduction of 25% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in submission – 50% penalty). This penalty does not apply for cases in which an application for special consideration is made and approved.

On successful completion you will be able to:

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets

- develop expertise in using excel spreadsheet software to build the financial models and perform the calculations for security valuation and corporate decision making
- demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

## Assessed coursework

Due: **sundays of weeks 1,2,3,4,5**

Weighting: **20%**

### Submission

Due on sundays, submit electronically (method to be advised). Submissions should be typed into word and converted to pdf, or an excel spreadsheet file created, or both. These can be uploaded and submitted electronically. There are 5 tasks, worth 5% each. These are individual, not group assignments. The due dates may change. We will advise students of any such changes to the due dates.

### Extension

No extensions will be granted. Late tasks will be accepted up to 72 hours after the submission deadline. There will be a deduction of 25% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in submission – 50% penalty). This penalty does not apply for cases in which an application for special consideration is made and approved.

On successful completion you will be able to:

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- develop expertise in using excel spreadsheet software to build the financial models and perform the calculations for security valuation and corporate decision making

## Class test

Due: **Week 3**

Weighting: **10%**

The online class test will be conducted during week 3 of the term and it will cover the content of weeks 1, 2 and 3.

### Extension

No extensions will be granted. Students who have not sat the exam / test will be awarded a mark of 0 for the task, except for cases in which an application for special consideration is made and approved

On successful completion you will be able to:

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

## Final exam

Due: **University Examination Period**

Weighting: **50%**

The online final exam will be conducted during the session 3 exam period and it will cover the entire content of the unit.

Extension

No extensions will be granted. Students who have not sat the exam / test will be awarded a mark of 0 for the task, except for cases in which an application for special consideration is made and approved.

On successful completion you will be able to:

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

## Delivery and Resources

The volume of learning will vary from week to week. The content will be videos of lectures and tutorial questions with worked solutions. In a normal face to face delivery of this unit we have 3 hours of face to face teaching each week. This is usually 2 hours of lecture and one hour of tutorial questions and solution. In this external offering of the unit we are covering 12 3-hour sessions over a 5 week time frame. Each 3-hour teaching session normally includes a lecture component covering finance / financial theory, a set of tutorial problems and worked solutions explaining how to solve the problems, and a section on the use of spreadsheets for financial calculations and data analysis. With recorded lectures, each hour of face to face instruction may be approximately equal to

## 40-45 minutes of video recording.

In week 1 (starts monday 8 December 2014) we will cover the equivalent of 2 3-hour teaching sessions

in week 2 (starts monday 15 December 2014) we will cover the equivalent of 3 3-hour teaching sessions

in week 3 (starts monday 5 January 2015) we will cover the equivalent of 2 3-hour teaching sessions and at the end of the week we will have the mid term quiz

in week 4 (starts monday 12 January 2015) we will cover the equivalent of 3 3-hour teaching sessions

in week 5 (starts monday 19 January 2015) we will cover the equivalent of 2 3-hour teaching sessions

## Changes since last offering:

This offering is faster paced than the normal offering but the content is the same.

**All lecture content and tutorial exercises and solutions will be available on iLearn. This will be available in pdf form and mp4 files.**

The timetable for classes can be found on the University web site at:<http://www.timetables.mq.edu.au/>

There are no prizes for this unit.

Required and Recommended Texts and/or Materials

### **Textbooks:**

The recommended textbook for this unit is "Fundamentals of Corporate Finance" by Parrino et al (isbn 9781118378076). An electronic version of the book is available and may be cheaper than the paper version. This book covers most but not all of the topics in the unit. The lecture notes & videos will also cover what you need to know. Additional readings may be assigned for the various topics each week. This will either be journal articles, or other materials available on the web or available electronically e.g. via the Macquarie University Library

### **Reference Books:**

Berk, J. and Demarzo, P. Corporate Finance, Pearson (ISBN 9780273756033)

Beninga Principles of Finance with Excel, Oxford (ISBN 978 0 19 975547 9)

This book may be used to by students to learn about using excel for the various financial calculations involved in the course, during the tutorial / computer lab sessions.

Copeland, Weston and Shastri, Financial Theory and Corporate Policy 4th Edition, Pearson (ISBN 0-321-22353-5)

Grinblatt and Titman, Financial Markets and Corporate Strategy 2nd Edition, McGraw-Hill (ISBN 0-07-229433-7)

Hull, Options, Futures and Other Derivatives 8<sup>th</sup> Edition, Prentice Hall

### Technology Used and Required

Students will require access to the internet to download lecture slides and tutorial solutions and to be able to view the video recordings. You may also be required to download financial or other data from the internet for the tutorial exercises and assignments.

The assignment and most tutorial exercises will require the use of word processing and/or spreadsheet programs. We use microsoft excel for spreadsheet work. For any excel spreadsheet work you do or submit, you need to use an "english speaking" version of excel. Our academic staff are not multilingual. .

In most weeks we will be using excel spreadsheets for the various financial calculations needed.

Students will be instructed in how to use excel for the purposes of the unit

Students may wish to bring a headset to class so they can view and listen to the mp4 video files of lectures / tutorials / excel demonstrations

## Unit Web Page

Course material is available on the learning management system (iLearn)

? The web page for this unit can be found at: <http://ilearn.mq.edu.au/course/view.php?id=17756>

## Learning and Teaching Activities

The unit is taught via video lectures, tutorial exercises & solutions and the use of spreadsheet software for implementing models and calculations for the purpose of financial decision making. We have a "problem based learning" approach. Attempting the tutorial, homework and assignment problems and reviewing the solutions will enable you to learn the theory, terminology and practice in finance.

Each teaching session is self-contained and structured according to the summary provided in the "curriculum" section below. Students are expected to attempt the tutorial problems and view the video recordings of the solutions to these. This will greatly enhance your learning experience.

Dealing with advanced material in our subject area requires a range of generic skills. This unit

aims at developing such skills. The lectures and in particular the assignments and tutorial exercises are tailored to enhance critical analysis, problem-solving and creative thinking, comprehension, computing and writing skills.

You should take the time to work on the problem sets, since they will tend to be similar in nature to the problems you see on the test and exam. Solutions will be provided for the assigned selected questions.

We cover many examples of financial valuation and decision making problems and how to solve these using spreadsheets. Our approach is one of learning by example and by practicing using excel to solve financial decision making problems.

## Unit Schedule

Session	Topics	Readings
<b>Session 1</b>	Introduction to Finance, Different forms of business organisation Measurement of Financial Condition and Profit - Financial Statements and Analysis. Taxation Depreciation Introduction to using spreadsheets	lecture notes & text Ch 1 (1.1, 1.2); Ch 3, Ch4
<b>Session 2</b>	The time value of money and interest rates. Introduction to financial mathematics. Simple and compound interest Various types of interest rate Valuation of single payment cashflows Spreadsheet implementation of financial calculations.	lecture notes & text Ch 5
<b>Session 3</b>	Valuation of multi-payment cashflows annuities & perpetuities Present value and future value Sinking funds Loans, leases, amortizing loans Nominal and effective interest rates Spreadsheet implementation of financial calculations	lecture notes, & text Ch 6



<b>Session 4</b>	Valuation of shares and fixed income bonds Bond terminology, Yield to maturity RBA bond valuation formula Solving for the bonds price, coupon rate, or yield Dividend discount model for share valuation Gordon growth model and two stage growth model Share valuation using PE multiple Net Asset Valuation Spreadsheet implementation of financial calculations	lecture notes & text ch 8, 9
<b>Session 5</b>	Capital Budgeting – project evaluation methods Weighted Average Cost of Capital Internal rate of return, net present value, payback period Definition and measurement of cashflow Sensitivity analysis and breakeven analysis Excel implementation of calculations	lecture notes text ch 10, 11, 13
<b>Session 6</b>	The term structure of interest rates and corporate bond valuation Zero Coupon Bonds The relationship between zero coupon bonds and normal coupon bearing bonds & the law of one price The bootstrap method Spot and forward yield curves Applications of zero coupon bond pricing Corporate Debt Finance Valuing corporate bonds	lecture notes text ch 8
<b>Session 7</b>	Raising new capital – Debt & Equity IPO SEO Placement Rights Issue Dividend Reinvestment Plan Issuance Costs	lecture notes, text ch 15

<b>Session 8</b>	Randomness, Probability, & Risk in Finance  The structure of randomness - probability distributions:  Bernoulli, binomial, uniform and normal distributions  Expected value, variance, standard deviation,  Correlation, covariance, linear regression and forecasting  Measurement of risk  Results for portfolios  spreadsheet implementation	lecture notes
<b>Session 9</b>	Tradeoff between risk and return  Random walks, market efficiency  implications for investment and finance  measurement of risk and return,  estimation of risk and return.  Risk and return for portfolios  the capital asset pricing model and the security market line  Spreadsheet implementation of methods used.	lecture notes  text ch 7
<b>Session 10</b>	Capital Structure & Payout Policy  Debt, equity and hybrid securities  Impact on stakeholders  Capital structure  Payout Policy  Interaction between payout policy and capital structure  Pecking order hypothesis of financing preferences	lecture notes  text ch 16, 17
<b>Session 11</b>	Financial Derivative securities  Futures & forward contracts & Option Contracts  Black Scholes Valuation formulae  Applications to Corporate Finance.  spreadsheet implementation.	lecture notes  text ch 20
<b>Session 12</b>	Risk Management & International Corporate Finance,  Applications of options and derivative securities  hybrid securities.  Spreadsheet implementation	lecture notes  text ch 21

Dates	week 1 (sessions 1 & 2) 8-14 December 2014
	week 2 (sessions 3, 4 & 5) 15-21 December 2014
	Christmas / New Year Break: 22 December 2014 - 4 January 2015
	week 3 (sessions 6 & 7 + mid term test (5-11 January 2015)
	Mid term test: towards the end of week 3: 5-11 January 2015
	week 4 (sessions 8,9,& 10) 12-18 January 2015
	Week 5 (sessions 11 & 12) 19-25 January 2015
	Exam Period: Tuesday 27 January - Monday 2 February

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

Assessment Policy <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy <http://mq.edu.au/policy/docs/grading/policy.html>

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Grievance Management Policy [http://mq.edu.au/policy/docs/grievance\\_management/policy.html](http://mq.edu.au/policy/docs/grievance_management/policy.html)

Disruption to Studies Policy [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html) *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of Policy Central.

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student\\_conduct/](https://students.mq.edu.au/support/student_conduct/)

### Grades

Macquarie University uses the following grades in coursework units of study:

- HD - High Distinction
- D - Distinction
- CR - Credit

- P - Pass
- F – Fail

Grade descriptors and other information concerning grading are contained in the Macquarie University Grading Policy which is available at: <http://www.mq.edu.au/policy/docs/grading/policy.html>

## **Grade Appeals and Final Examination Script Viewing**

If, at the conclusion of the unit, you have performed below expectations, and are considering lodging an appeal of grade and/or viewing your final exam script please refer to the following website which provides information about these processes and the cut off dates in the first instance. Please read the instructions provided concerning what constitutes a valid grounds for appeal before appealing your grade.

## **Special Consideration Policy**

### **Supplementary Exams**

Further information regarding supplementary exams, including dates, is available here [http://www.businessandconomics.mq.edu.au/current\\_students/undergraduate/how\\_do\\_i/special\\_consideration](http://www.businessandconomics.mq.edu.au/current_students/undergraduate/how_do_i/special_consideration)

## **Student Support**

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

## **Learning Skills**

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## **Student Support**

Macquarie University provides a range of Academic Student Support Services. Details of these

services can be accessed at <http://students.mq.edu.au/support/>

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

## IT Help

For help with University computer systems and technology, visit <http://informatics.mq.edu.au/help/>.

When using the University's IT, you must adhere to the [Acceptable Use Policy](#). The policy applies to all who connect to the MQ network including students.

### IT Help

If you wish to receive IT help, we would be glad to assist you at <http://informatics.mq.edu.au/help/> or call 02 9850-4357.

When using the university's IT, you must adhere to the Acceptable Use Policy. The policy applies to all who connect to the MQ network including students and it outlines what can be done.

Students must use their Macquarie University email addresses to communicate with staff as it is University policy that the University issued email account is used for official University communication.

- Accessing inappropriate web sites or downloading inappropriate material is not permitted.
- Material that is not related to coursework for approved unit is deemed inappropriate.
- Downloading copyright material without permission from the copyright owner is illegal, and strictly prohibited. Students detected undertaking such activities will face disciplinary action, which may result in criminal proceedings.

Non-compliance with these conditions may result in disciplinary action without further notice.

## Graduate Capabilities

### PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

#### Learning outcomes

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- develop expertise in using excel spreadsheet software to build the financial models and perform the calculations for security valuation and corporate decision making
- demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

#### Assessment tasks

- Assignments
- Assessed coursework
- Class test
- Final exam

### PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

#### Learning outcomes

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- develop expertise in using excel spreadsheet software to build the financial models and perform the calculations for security valuation and corporate decision making

- demonstrate awareness of different financial instruments and their valuation and usefulness in a Corporate Finance context
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

## **Assessment tasks**

- Assignments
- Assessed coursework
- Class test
- Final exam

## **PG - Research and Problem Solving Capability**

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

## **Learning outcomes**

- to be able to demonstrate knowledge and understanding of the principles and techniques underlying theory and practice in Corporate Finance and Capital Markets
- develop expertise in using excel spreadsheet software to build the financial models and perform the calculations for security valuation and corporate decision making
- be able to explain the concepts covered in the course in a clear and concise manner and be able to communicate it to others effectively

## **Assessment tasks**

- Assignments
- Assessed coursework
- Class test
- Final exam

## **Research and Practice**

? This unit gives you practice in applying research findings in your assignments

? This unit gives you opportunities to conduct your own research

## Changes since First Published

Date	Description
11/02/2014	The Prerequisites was updated.