

AFIN8006

Risk Management and Derivatives

Session 2, Special circumstance 2020

Department of Applied Finance

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Disclaimer

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Notice

As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and ot her small group learning activities on campus for the second half-year, while keeping an online ver sion available for those students unable to return or those who choose to continue their studies onli ne.

To check the availability of face-to-face and onlin e activities for your unit, please go to timetable vi ewer. To check detailed information on unit asses sments visit your unit's iLearn space or consult yo ur unit convenor.

General Information

Unit convenor and teaching staff			
Unit Convenor			
Wei Cui			
wei.cui@mq.edu.au			
Contact via Email			
Credit points 10			
Prerequisites			
(Admission to MActPrac or MFin) or (ACST603 or ACST6003 or AFIN858)			
Corequisites			
Co-badged status			
Unit description			
This unit examines current techniques for measuring and managing the financial risk faced by			
corporate and financial institutions, with an emphasis on the practical use of derivative			
financial products such as forwards, futures, swaps and options to manage risk.			

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:

ULO1: Recognise the role of derivatives in financial risk management.

ULO2: Discover the fundamental principles of derivatives valuation and its application in managing risks.

ULO3: Evaluate alternative risk management strategies and tactics.

ULO4: Encourage peer learning, peer support and collaborative work inimplementing

appropriate risk management solutions for corporate risk scenarios.

General Assessment Information

Assessment criteria for all assessment tasks will be provided on the unit iLearn site.

It is the responsibility of students to view their marks for each within-session-assessment on

iLearn within 20 days of posting. If there are any discrepancies, students must contact the unit convenor immediately. Failure to do so will mean that queries received after the release of final results regarding assessment tasks (not including the final exam mark) will not be addressed.

Late submissions and extensions

<u>Tasks 10% or less</u> – No extensions will be granted. Students who have not submitted the task prior to the deadline will be awarded a mark of 0 for the task, except for cases in which an application for special consideration is made and approved.

<u>Tasks above 10%</u> - No extensions will be granted. There will be a deduction of 10% 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 – 20% penalty). This penalty does not apply for cases in which an application for special consideration is made and approved. No submission will be accepted after solutions have been posted.

Assessment Tasks

Name	Weighting	Hurdle	Due
Mid Session Test	20%	No	Week 8
Assignment	20%	No	Week 10
Final Examination	60%	No	University Exam Period

Mid Session Test

Assessment Type 1: Quiz/Test Indicative Time on Task 2: 20 hours Due: **Week 8** Weighting: **20%**

A 1.5 hour open book online test will be held during the session.

On successful completion you will be able to:

- Recognise the role of derivatives in financial risk management.
- Discover the fundamental principles of derivatives valuation and its application in managing risks.

Assignment

Assessment Type ¹: Report Indicative Time on Task ²: 20 hours Due: **Week 10** Weighting: 20%

Students will work in groups to conduct quantitative and qualitative analysis on a topical issue in financial risk management.

On successful completion you will be able to:

- Recognise the role of derivatives in financial risk management.
- Discover the fundamental principles of derivatives valuation and its application in managing risks.
- Evaluate alternative risk management strategies and tactics.
- Encourage peer learning, peer support and collaborative work inimplementing appropriate risk management solutions for corporate risk scenarios.

Final Examination

Assessment Type 1: Examination Indicative Time on Task 2: 20 hours Due: **University Exam Period** Weighting: **60%**

A 2.5 hour online open book examination will be held during University Examination Period.

On successful completion you will be able to:

- · Recognise the role of derivatives in financial risk management.
- Discover the fundamental principles of derivatives valuation and its application in managing risks.
- Evaluate alternative risk management strategies and tactics.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the Writing Centre for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

'Option, Futures, and Other Derivatives' (Global Edition) by John C. Hull, 10th Edition, Pearson.
Course material is available on the learning management system (iLearn) Students should consult the web page frequently. Learning, teaching and other reference materials are posted to this site throughout the session.
Access to the unit Web Site.Word processing software for report writing.Spreadsheets for applying quantitative models studied in the unit.
Classes Classes comprise a weekly, three-hour seminar, typically structured as a two-hour lecture pus one hour for exercise questions. Students should attend all classes, both for learning and assessment purposes. The timetable for classes can be found on the University website at: https://timetables.mq.edu.au/2020/
Additional references may be added during the session. Details of these will be provided at the unit web page.

Unit Schedule

Week	Textbook Chapters	Торіс
1	1,2,3	Introduction to futures, options and hedging strategies
2	5	Forwards and futures pricing and hedging
3	7	Swaps pricing and construction
4	13	Options pricing using binomial trees
5	15	Options pricing using the Black-Scholes-Merton model
6	19,20	Greek letters and volatility smiles
7	22	Value at risk
		Mid-semester break
8		Mid-session Test
9	23	Volatilities, correlations, and dependence
10	24	Credit risk
11	34	Energy and commodity derivatives
12	36	Ethical issues in risk management
13		Revision

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.m q.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-centr al). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- Fitness to Practice Procedure
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- <u>Special Consideration Policy</u> (*Note: The Special Consideration Policy is effective from 4* December 2017 and replaces the Disruption to Studies Policy.)

Students seeking more policy resources can visit the <u>Student Policy Gateway</u> (https://students.m <u>q.edu.au/support/study/student-policy-gateway</u>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (http s://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p olicy-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/study/getting-started/student-conduct

Results

Results published on platform other than <u>eStudent</u>, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in <u>eStudent</u>. For more information visit <u>ask.mq.edu.au</u> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

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

Learning Skills

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

- Getting help with your assignment
- Workshops
- StudyWise
- Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian

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

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit <u>http://www.mq.edu.au/about_us/</u>offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.