ACFI3130: Derivative Securities BINUS 2024

MISSION: To develop a unique business school identity which is distinctive in the marketplace and provides a clear value proposition for students. This will be achieved by embedding the themes of entrepreneurship and innovation, digitalisation and data within our programs and embracing sustainability, work integrated learning and a commitment to social justice.

OVERVIEW

Course Description	This course provides an insight into measuring and managing risk exposures of firms operating in the financial services industry. Introducing analytical tools of measuring interest rate risk, credit risk,	
Contact Hours	and liquidity risk. Integrated Learning Session	
	Face to Face On Campus 2 hour(s) per Week for Full Term	
	Students are expected to complete 4 hours of guided learning via online preparation, lectures, interactive workshops, tutorials, discussion groups or self-directed learning and an additional 6 hours of independent study per week.	
Unit Weighting	10 units	
Assumed Knowledge	Any Assumed Knowledge or Pre-Requisites for this course have been	
& Pre-Requisites	previously satisfied by the successful completion of courses within the	
	approved student study plan.	
Workload	Students are required to spend on average 120-140 hours of effort	
.	(contact and non-contact) including assessments per 10 unit course.	
Course Learning Outcomes	On successful completion of this course, students will be able to:	
Outcomes	 Comprehend the nature and pricing of options contracts together with their uses in portfolio management and risk reduction strategies; 	
	strategies; 2. Demonstrate what a futures contract is, how futures markets are	
	organised and the determinants of futures prices;	
	3. Interrelate the system of deposits, margins and marking-to-	
	market used by futures exchanges;	
	4. Interpret and explain speculation and hedging strategies using	
	futures contracts, inclusive of reasons for imperfection;	
	5. Define the features of the major financial contracts traded on the	
	Sydney Futures Exchange and analyse the speculation and	
	hedging strategies using their futures contracts;	
	6. Explain the uses of forward-rate agreements;	
	 Identify the major types and characteristics of options, distinguish between options and futures, and expound the factors that affect option prices; 	
	8. Apply basic option pricing theorems, including put-call parity;	
	 9. Examine the Black-Scholes and binomial option pricing models and how they are used to calculate option prices; 	
	10. Explain the characteristics and uses of foreign currency options;	
	11. Work individually or in teams to analyse and communicate	
	investment information leading to independent investment	www.newcastle.edu.au
	decision making; and	CRICOS Provider
	 Evaluate different financial paradigms and outcomes to inform and direct personal and professional learning. 	00109J





ASSESSMENTS

This course has 3 assessments. Each assessment is described in more detail in the sections below:

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Mid Semester Quiz	Week 7	Individual	25%	2, 3, 4, 5, 6
2	Assignment	Sunday, Week 10 by 11:59 pm	Individual	25%	2, 3, 4, 5, 11
3	Final Examination	Examination Period	Individual	50%	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Please note: students are advised that all assessments must be submitted in English. Assessment items <u>not</u> submitted in English will receive a mark of zero.

Results of individual assessment items and final results, including those provided via the Learning Management System (LMS) are 'unofficial results' until they are confirmed as finalised by the School Assessment Body and the Head of School or delegate. Finalised results are released directly to students on the Fully Graded Date of the relevant Semester/Trimester.

Time referenced is time in Jakarta, Indonesia

Late Submissions	The mark for an assessment item submitted after the designated time on the due date,		
without an approved extension of time, will be reduced by 10% of the possible mark for that assessment item for each day or part day that the assessment it			
	Note : this applies equally to week and weekend days.		

Assessment 1 – Mid Semester Quiz

Assessment Type	Quiz
Purpose	The purpose of this quiz is to assess students' capacity to apply critical thinking and
-	analytical problem-solving skills to provide reasoned and appropriate responses to
	questions.
Description	In this quiz you will be required to answer multiple-choice and short-answer questions.
	You will be required to apply critical thinking and analytical problem-solving skills to
	provide reasoned and appropriate responses to the questions.
	The quiz will cover the first five lecture topics (all of the material covered in Chapter 17 of
	the textbook) and will include questions that are practical and theoretical in nature.
Waighting	25%
Weighting	
Length	90 minutes (including reading time)
Due Date	A date to be determined in week 7
Submission Method	In Class
Assessment Criteria	The following five (5) criteria will be applied:
	 Demonstrated understanding of theory and relevant concepts.
	 Demonstrated application of financial mathematics to solve problems.
	 Accuracy of information/argument.
	 Clarity of expression.
	 Relevance of answer to the question.
Return Method	In Class/Online
Feedback Provided	Online - Solutions will be provided on the CANVAS site and discussed in tutorials.
Assessment 2 - V	Vritten Assignment
Assessment Type	Written Assignment
Purpose	The purpose of this assignment is to assess students' capacity to demonstrate via a
•	trading application their knowledge of what a futures contract is, how futures markets are
	organised and the determinants of futures prices. It also assesses their understanding of
	the system of deposits, margins and marking-to-market used by futures exchanges and
	their ability to interpret and explain speculation and hedging strategies using futures
	contracts, inclusive of reasons for imperfection. It also assesses their understanding of
	the major financial contracts traded on the derivatives exchange.
Description	Students apply critical thinking and problem solving in assessing how to apply their
Description	futures trading strategies and effectively communicate those strategies through a written
Mainhtin a	report
Weighting	25% 4500 words
Length	1500 words



Due Date	Sunday of week 10 by 11:59 pm
Submission Method	Online – via Turnitin
Assessment Criteria	Five (5) criteria will be used:
	 Demonstrated understanding of theory and relevant concepts. Demonstrated application of financial tools in relevant business decision making.
	 Depth and relevance of analysis.
	 Logic and reasoning of arguments.
	 Structure and presentation of the report.
Return Method	Not returned
Feedback Provided	Online - Solutions to the assignment will be provided on CANVAS prior to the
	examination to allow timely feedback.
Assessment 3 - F	inal Examination
Assessment Type	Formal Examination
Purpose	In this exam you will be required to answer multiple-choice and short-answer questions.
•	You will be required to apply critical thinking and analytical problem-solving skills to
	provide reasoned and appropriate responses to the questions.
Description	The exam will cover the ALL of the material covered in the course and will include
	questions that are practical and theoretical in nature.
	This course has a RESTRICTED OPEN BOOK examination. A memory aid is
	permitted. The memory aid is a single double sided A4 sheet of handwritten or typed notes for use during the examination. Note: memory aids must be left on the
	examination table and cannot be removed from the examination venue.
Weighting	50%
Length	120 minutes
Due Date	Formal Examination Period
Submission Method	Formal Exam
Assessment Criteria	The following five (5) criteria will be applied:
	 Demonstrated understanding of theory and relevant concepts
	 Demonstrated application of financial mathematics to solve problems
	 Accuracy of information/argument
	 Clarity of expression
	 Relevance of answer to the question
Return Method	Not Returned
Feedback Provided	No Feedback. Examination scripts will not be returned to students. Final examination
	scripts will be made available for review by students, upon request, in a controlled and monitored setting. Students are required to make requests, directly to the relevant
	course coordinator. Completed examination scripts are kept by the Newcastle Business
	School for a period of six (6) months only, from the relevant fully graded date. Requests
	made after the six (6) month period cannot be considered.
SYLLABUS	
Course Content	Topics in the course include but are not limited to the following:
	Covers analysis of derivative securities, binomial option pricing, put-call parity for stock
	options and the like.
Course Materials	Recommended text:
	Peirson, G., Brown, R., Easton, S., Howard, P. and Pinder, S, Business Finance, 12th ed.
	(2015) – McGraw-Hill – North Ryde
	ISBN : 978-1-74307-897-6
	Please refer to the course CANVAS site for details of additional recommended texts.



SCHEDULE

Week	Торіс	Class Preparation	Workshop Activities
1	Introduction to Futures Markets	Read Peirson et al. Chapter 17, sections 17.1-17.4	
2	Futures Market Strategies	Read Peirson et al. Chapter 17, sections 17.5-17.6, 17.8	
3	Futures Market Strategies (continued)	Read Peirson et al. Chapter 17, sections 17.5-17.6, 17.8	
4	Futures Market Strategies (continued)	Read Peirson et al. Chapter 17, sections 17.5-17.6, 17.8	
5	Financial Futures Contracts	Read Peirson et al. Chapter 17, sections 17.7 and 17.9	
6	Financial Futures Contracts (continued)	Read Peirson et al. Chapter 17, sections 17.7 and 17.9	
7	Mid-Semester Quiz		Assessment 1 due: Mid Semester quiz. Date and time to be advised on CANVAS.
8	Introduction to Options Market	Read Peirson et al. Chapter 18, sections 18.1-18.2	
9	Introduction to Options Market (continued)	Read Peirson et al. Chapter 18, sections 18.1-18.2	
10	Put-Call Parity	Read Peirson et al. Chapter 18, section 18.2	Assessment 2 due: Sunday, Week 10 by 11:59 pm
11	Binomial Option Pricing	Read Peirson et al. Chapter 18, section 18.3	
12	Foreign Currency Options	Read Peirson et al. Chapter 18, section 18.5	
13	Course Review		



CONTACTS

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ADDITIONAL INFORMATION

Grading Scheme

This course is graded as follows:

Grading Scheme		is graded as id	
	Range of Marks	Grade	Description
	85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
	75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
	65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
	50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
	0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.
Communication			for the purposes of assessment task(s). sed in this course include:
Methods - CANVAS Course Site: Students will receive communications via the posti content or announcements on the CANVAS course site.			te: Students will receive communications via the posting of
	- Face		receive communications via their student email account. nunication will be provided via face to face meetings or
Course Evaluation	Each year fe	edback is sou University for	ght from students and other stakeholders about the courses the purposes of identifying areas of excellence and potential
Oral Interviews	As part of the may be conc material sub conducted in cases where	e evaluation pr lucted. The pu mitted in respo accordance w the oral exam	occess of any assessment item in this course an oral examination rpose of the oral examination is to verify the authorship of the onse to the assessment task. The oral examination will be vith the principles set out in the <u>Oral Examination Guidelines</u> . In ination reveals the assessment item may not be the student's dealt with under the Student Conduct Rule.
Academic Misconduct	All students standards re	are required to inforce the imp	been with an as the <u>been been been been been been been be</u>

Academic Integrity policies apply to all students of the University in all modes of study and

in all locations. For the Student Academic Integrity Policy, refer to



Adverse	https://policies.newcastle.edu.au/document/view-current.php?id=35. The University acknowledges the right of students to seek consideration for the impact of	
Circumstances	Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:	
	 the assessment item is a major assessment item; or 	
	2. the assessment item is a minor assessment item and the Course Co-ordinator has	
	specified in the Course Outline that students may apply the online Adverse Circumstances system;	
	3. you are requesting a change of placement; or	
	4. the course has a compulsory attendance requirement.	
	Before applying you must refer to the Adverse Circumstances Affecting Assessment Items Procedure available at:	
	https://policies.newcastle.edu.au/document/view-current.php?id=236	
Important Policy Information	The 'HELP for Students' tab in UoNline contains important information that all students should be familiar with, including various systems, policies and procedures.	

This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.

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