



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	衍生性金融商品		學年/學期 Academic Year/Semester	112/1	
課程名稱(英文) Course Name in English	Derivatives				
科目代碼 Course Code	MSF_10230	系級 Department & Year	學三	開課單位 Course-Offering Department	管理科學與財金國際學士學位學程
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/羅德謙				
先修課程 Prerequisite					

課程描述 Course Description

Financial Derivatives, such as Futures and Options, is one of the fundamental subjects in Finance. I will introduce several interesting derivatives securities, including Forward Contracts, Futures, Options, and their characteristics in this course.

The course is designed to provide students an understanding of financial derivatives products. Students who would like to pursue further studies in Finance or seek jobs in Finance, Accounting or Business industry are recommended to take this course.

This course may be required to be online course this semester according to school policies. I will provide a link at NDHU course website before the class starts. You may login the class via Google Meet.

課程目標 Course Objectives

This course introduces and explains the derivatives and underlying assets. Emphasis of this course is on the understanding and applications of financial models, and financial products.

系專業能力 Basic Learning Outcomes		課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	能以數量方法分析與解決問題。 Using quantitative methods to analyze and solve problems.	●
B	具備財務金融領域之分析能力。 Equipped with the ability to analyze finance.	●
C	能善用資訊科技進行資料分析、統整與呈現。 Using information technology to analyze, integrate, and present data.	○
D	具備國際視野與專業外語能力。 Equipped with a global vision and specialized foreign language proficiency.	●
E	具備掌握財經時事議題及研判財經趨勢之能力。 Equipped with the ability to master topics of finance and economy, and other current news, and to diagnose financial and economic tendencies	○
F	具備一般管理的基礎知識。 Equipped with basic knowledge of management in general.	●

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content

週次 Week	內容 Subject/Topics	備註 Remarks
1	Introduction	

2	Chap 1. Introduction	
3	Chap 2. Mechanics of Futures and Forward Markets	
4	Chap 3. Hedging Strategies Using Futures	
5	Chap 5. Determination of Forward and Futures Prices	
6	Chap 9. Mechanics of Option Markets	
7	The First In-Class Assignment	
8	Discussion on In-Class Assignment, Review	
9	期中考試週 Midterm Exam	
10	School Holiday, No class	
11	Chap 10. Properties of Stock Options	
12	Chap 11. Trading Strategies Involving Options	
13	Final Presentation	
14	Final Presentation Chap 12. Introduction to Binomial Trees	
15	Final Presentation Chap 13. Valuing Stock Options: The Black-Scholes-Merton Model	
16	The Second In-Class Assignment	
17		
18		

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- 問題導向學習 (PBL)
 團體合作學習 (TBL)
 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom
 磨課師 Moocs

社會責任 (Social Responsibility)

- 在地實踐 Community Practice
 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- 跨界教學 Transdisciplinary Teaching
 跨院系教學 Inter-collegiate Teaching

- 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	10%								
期中考成績 Midterm Exam	35%								
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	20%								In-Class Assignment
其他 Miscellaneous (Final Presentation)	35%								

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

John Hull, Fundamentals of Futures and Options Markets, Prentice Hall. 雙葉書局代理

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.
Personal website can be listed here.)

其他補充說明 (Supplemental instructions)