

## Tamkang University Academic Year 105, 1st Semester Course Syllabus

Course Title	FIXED INCOME SECURITIES AND FINANCIAL INNOVATION	Instructor	TSUNG-YU HSIEH
Course Class	TLUXM1A TKU-QUT DUAL MASTER DEGREE PROGRAM IN FINANCE (ENGLISH-TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> <li>◆ Selective</li> <li>◆ One Semester</li> <li>◆ 2 Credits</li> </ul>
D e p a r t m e n t a l   A i m   o f   E d u c a t i o n			
<p>I. To cultivate a professional understanding of the theory and skills of finance.</p> <p>II. To be able to solve practical problems by professional knowledge of finance.</p> <p>III. Possess the ability to communicate and express views regarding financial profession.</p> <p>IV. Emphasize corporation and coordination within a team.</p> <p>V. To expand international vision and civic awareness.</p>			
D e p a r t m e n t a l   c o r e   c o m p e t e n c e s			
<p>A. Have a strong grasp of the advanced knowledge and skills in professional finance.</p> <p>B. Possess the advanced application ability to financial practices.</p> <p>C. To be capable of communicating and expressing views in terms of advanced finance.</p> <p>D. Illustrate the ability of corporation and coordination within a team.</p> <p>E. Understand international financial issues and corporate responsibility.</p>			
Course Introduction	<p>This subject is designed to discuss the analytical framework necessary to understand the pricing of bonds and their characteristics. Students are expected to have abilities to value bonds and quantify their exposure to changes in interest rates, and portfolio strategies.</p>		

**The Relevance among Teaching Objectives, Objective Levels and Departmental core competences**

I.Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,  
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,  
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,  
A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	To learn coverage of the products, analytical techniques for valuing bonds and quantifying their exposure to changes in interest rates, and portfolio strategies.	C4	AB

**Teaching Objectives, Teaching Methods and Assessment**

No.	Teaching Objectives	Teaching Methods	Assessment
1	To learn coverage of the products, analytical techniques for valuing bonds and quantifying their exposure to changes in interest rates, and portfolio strategies.	Lecture, Discussion	Written test

This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◇ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◇ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◆ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◇ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◇ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

#### Course Schedule

Week	Date	Subject/Topics	Note
1	105/09/12 ~ 105/09/18	Course introduction	
2	105/09/19 ~ 105/09/25	Pricing of Bonds	
3	105/09/26 ~ 105/10/02	Measuring Yield	
4	105/10/03 ~ 105/10/09	Bond Price Volatility (I)	
5	105/10/10 ~ 105/10/16	Bond Price Volatility (II)	
6	105/10/17 ~ 105/10/23	Factors Affecting Bond Yields and the Term Structure of Interest Rates	
7	105/10/24 ~ 105/10/30	Treasury and Federal Agency Securities	
8	105/10/31 ~ 105/11/06	Corporate Debt Instruments	
9	105/11/07 ~ 105/11/13	Asset-Backed Securities	
10	105/11/14 ~ 105/11/20	Midterm Exam Week	
11	105/11/21 ~ 105/11/27	Interest-Rate Models	
12	105/11/28 ~ 105/12/04	Analysis of Bonds with Embedded Options	

13	105/12/05 ~ 105/12/11	Analysis of Residential Mortgage-Backed Securities	
14	105/12/12 ~ 105/12/18	Analysis of Convertible Bonds	
15	105/12/19 ~ 105/12/25	Corporate Bond Credit Analysis	
16	105/12/26 ~ 106/01/01	Credit Risk Modeling	
17	106/01/02 ~ 106/01/08	Interest-Rate Options	
18	106/01/09 ~ 106/01/15	Final Exam Week	
Requirement			
Teaching Facility	Computer, Projector		
Textbook(s)	Bond Markets		
Reference(s)			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance :           %   ◆ Mark of Usual :           %   ◆ Midterm Exam : 35.0 % ◆ Final Exam :   35.0 % ◆ Other (Attendance & quizzes) : 30.0 %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>		