## Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	THE MATHEMATICS OF FINANCE	Instructor	CHEN, TZU-YING				
Course Class	ie Class TLOXB2P DEPARTMENT OF RISK MANAGEMENT AND Details INSURANCE, 2P		<ul> <li>General Course</li> <li>Selective</li> <li>One Semester</li> </ul>				
Relevance to SDGs	SDG4 Quality education elevance o SDGs						
Departmental Aim of Education							
I. Enhand profess	e professional knowledge of risk management and insurance to ional skill.	o strengthen					
II. Focus o	on industry-university cooperation to combine theory and pract	ical issues.					
III. Empha	size on the license acquirement to increase students' job oppor	tunity.					
	Subject Departmental core competence	es					
A. Students	s will exhibit knowledge for business professional.(ratio:50.00)						
<ul> <li>D. Students will exhibit the ability of financial planning especially for insurance products. (ratio:50.00)</li> </ul>							
Subject Schoolwide essential virtues							
2. Informa	tion literacy. (ratio:50.00)						
5. Indeper	ident thinking. (ratio:50.00)						
	The aim of this course is to give a general understanding of t mathematical finance.	he principles c	of				
Course Introduction							

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives. Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.						
<ul> <li>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</li> <li>II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</li> <li>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</li> </ul>						
No.			objective methods			
1	To understand the fundamental concepts of mathematical finance.				Cognitive	
	The c	orrespond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	AD		25	Lecture	Testing, Study Assignments	
	1			Course Schedule		
Week	Date		Cou	Note		
1	111/02/21~ 111/02/25	Introduction				
2	111/02/28~ 111/03/04	Ch 1 Tł	Ch 1 The Measurement of Interest			
3	111/03/07~ 111/03/11	Ch 1 Tł	Ch 1 The Measurement of Interest			
4	111/03/14~ 111/03/18	Ch 1 Tł	Ch 1 The Measurement of Interest			
5	111/03/21~ 111/03/25	Ch 2 So	Ch 2 Solution of Problems in Interest			
6	111/03/28 ~ 111/04/01	Ch 2 So	Ch 2 Solution of Problems in Interest			
7	111/04/04 ~ 111/04/08	Teachi	Teaching Observation Period			
8	111/04/11~ 111/04/15	Ch 3 Ba	Ch 3 Basic Annuities			
9	111/04/18 ~ 111/04/22	Review for Midterm Exam				
10	111/04/25 ~ 111/04/29	Midterm Exam Week				
11	111/05/02 ~ 111/05/06	Ch 4 More General Annuities				
12	111/05/09~ 111/05/13	Ch 4 More General Annuities				
13	111/05/16~ 111/05/20	Ch 5 Amortization Schedules and Sinking Funds				

14	111/05/23~ 111/05/27	Ch 5 Amortization Schedules and Sinking Funds		
15	111/05/30~ 111/06/03	National Holiday (No Class)		
16	111/06/06~ 111/06/10	Ch 6 Bond and Other Securities		
17	111/06/13~ 111/06/17	Review for Final Exam		
18	111/06/20~ 111/06/24	Final Exam Week		
Requirement				
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		Stephen Kellison. The Theory of Interest, 3rd Edition, 2009.		
References		利息導論與應用(3版);喬治華、莊聲和、李志武編譯;Stephen Kellison原著;滄海圖書出版。 財務數學(8版);黃弘毅編譯;Robert L. Brown, Steve Kopp, and Peter Zima原著;華泰書局 出版。		
Number of Assignment(s)		4 (Filled in by assignment instructor only)		
Grading Policy		<ul> <li>♦ Attendance: % ♦ Mark of Usual: 20.0 % ♦ Midterm Exam: 40.0 %</li> <li>♦ Final Exam: 40.0 %</li> <li>♦ Other 〈 〉: %</li> </ul>		
Note		<ul> <li>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>.</li> <li><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></li> </ul>		

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