

Capital University of Economics and Business Overseas Chinese College Course Syllabus

Year and Semester	2023Fall (Sophomore/ Junior)			
<u>Course Name</u>	Fixed Income			
<u>Course Code</u>	F1304			
<u>Course Type</u>	□ General Education (Required) □ General Education (Elective)			
	□Professional Course (Required 2 Professional Course (Elective)			
	Basic Disciplinary Course			
Course Credits	3			
<u>Course Hours</u>	3*16=48			
<u>Prerequisites</u>	None			
Instructor	Kristen Zhang			
Contact Information	Office: C204			
	Tele: (010)8395 1085			
	Email:zhangqian@cueb.edu.cn			
<u>Office Hour</u>	Qian Zhang: M/T/W: 8:00-9:35			
Learning Centre	Qian Zhang: M: 18:00-20:00 (Online)/TH : 8:00-9:35			
Grade/Section	2020ACCA1&2			
Course Time/Place	TH/T: 9:55-12:20 博学 109/111			

Textbook

Frank J. Fabozzi. *Bond Markets, Analysis and Strategies*, 9th *Edition*, Renmin University Press, Beijing, ISBN: 978-7-300-25225-4

Reference Books

- Frank K. Reilly, et al. Analysis of Investments and Management of Portfolio, 10th Edition, China Machine Press, Beijing, ISBN: 978-7-111-43864-9
- 2. Zvi Bodie et al. Investments, 10th Edition, China Machine Press, Beijing, ISBN: 978-7-111-58160-4

Course Description

This course aims to equip students with the essential knowledge and skills of analysis and valuation of fixed income securities. It covers the fundamentals of fixed income investments. Key areas include introduction to defining elements of fixed-income securities, fixed income markets, fixed income valuation, asset-backed securities, fixed income risk and return, fundamentals of credit analysis for fixed income investments.

Student Learning Objectives

After completing this course, students should be able to: Knowledge:

- Describe characteristics of fixed income securities;
- Describe primary issuers, sectors and types of bonds;
- Explain and apply market conventions for prices/yields calculation and quotation;



- Explain Measures of risk for fixed income securities;
- Explain the risk of asset-backed securities;

Capability

- Calculate and interpret prices, yields and spreads of fixed-income securities;
- Calculate duration, convexity, and analyze interest rate risk;
- Discuss securitization process and related risk;
- Apply valuation models to evaluate fixed-income securities;

Mindset:

- Act with integrity, respect, and in an ethical manner in the finance field;
- Be independent and diligent in the investment process;
- Strive to improve professional knowledge and competence;
- Apply critical thinking in the process of decision making.

Website Source

- 1. http:// <u>www.sse.com.cn</u> Shanghai Stock Exchange
- 2. <u>http://www.szse.cn/</u> Shenzhen Stock Exchange
- 3. <u>https://www.hkex.com.hk/</u> Hong Kong Exchanges
- 4. <u>https://www.nyse.com/index</u> New York Stock Exchange
- 5. <u>http://www.csrc.gov.cn/pub/newsite/</u>
- 6. <u>https://finance.sina.com.cn/</u> 第 新浪财经

Teaching Methods

This course contains lectures, class discussions, homework, quizzes, presentation and exams. Textbook content will be introduced first. Then real case and practice questions will be delivered to students as a way to test their understanding of the knowledge. This will require individual or group assignment in or after class.

Grade Criterion

Component	Weight	Description			
		A cumulative final examination will be given based on all of the contents			
		of the class. The exam paper may be composed of multiple-choice			
Final Exam	20%	questions, short answer questions, essay questions, problems. Students			
		should rely primarily on homework assignments to give them a sense of			
		what they may see for material on exams.			
		A cumulative midterm test will be given based on all of the contents			
Mid Tama Tast	20%	that have been taught in class. The test paper may be mainly composed			
Mid-Term Test		of multiple-choice questions and it should be completed within 50			
		minutes in class.			
		Most of the assigned homework is taken from the Exercises in the			
II	15%	textbook. Assignments will be collected at the clearly stated date. Late			
Homework		assignments will not be accepted. The graded assignments will be kept			
		by the tutor for reference and won't be returned to students.			
0	150/	There will be at least 2 quizzes during the semester. Quizzes may or may			
Quizzes	15%	not be announced in advance. It may also be used as a way to check the			



		attendance. Quizzes will test your knowledge of both concepts and the		
		application of those concepts.		
		The students will be divided into several groups to prepare a presentation.		
		Each student is required to be involved in the presentation. The topics		
Presentation	10%	can be selected from the textbook or lectures or course related materials.		
		Each group needs to finish a PPT related to the topic which is given and		
		hand in the related resources to the teacher before the presentation.		
		Individuals will be asked to participate individually in a question and		
Participation	10%	answer at least 5 times during the semester. The performances should be		
		counted in their participation.		
Attendance	10%	Refer to attendance policy listed below		
Total	100%			

Detailed Grade Computation

	Before Midterm	After Midterm
Attendance	5%	5%
Participation	5%	5%
Homework	5%	10%
Quizzes	5%	10%
Presentation		10%
Midterm test	20%	
Final exam		20%
Total	40%	60%

Assessment of Student Performance

☞ Self-Study and Reading ability Practice

Instructor will give out the chapters or the reference books to read and use class hours to have discussion; students should be able to show a proactive attitude and ability for self-study and reading. Knowledge and oral English will be elements of homework or presentation score.

The Homework

Students should finish their homework by themselves. Copying from others will be treated as cheating and the homework scores will be lowered. Students should hand in all assignments on time. Late assignments will be accepted at the discretion of the instructor (i.e., when the student was ill or had an excused absence). Late assignments without reasonable proof will be reduced in score by 50%.

Attendance

Because the course covers a great deal of material, attending every class session is very important for performing well.

- Being late for 15 minutes or more is considered an absence.
- Five hours or above of unexcused absences will result in the lower level of the final grade by one grade band (e.g. from C to D +). Any excused absence must be discussed directly with the teacher.
- Absence which is more than 1/3 of the total teaching hours will cause an F (a failing grade)

directly.

But students are welcome to continue attending classes.

• An incomplete grade (I) will be considered in case of medical or family emergencies.

Participation

- Students should participate in classes actively. Half of participation grade is determined by their presentation in class. They are encouraged to ask questions relevant to the subject and express their own opinions. Every student should respect the ideas, opinions, and questions of their classmates.
- Students should also use office hours to ask questions or talk with the instructor for good communication and effective learning.
- Frequent visiting the instructor and chatting in English during office hours is highly recommended.
- Any misbehavior and non-class related activities in class will result in the lower level of the participation grade, including ringing cell phones.
- All above behaviors will be solely evaluated by the instructor for scoring.

Textbook

Students must bring the textbook to class.

Week	Topics	Contents	Homework
	• Course	• Syllabus	Chapter 1
	introduction	• Course introduction	Exercise
1	• Chapter 1	• Chapter 1 Introduction	
	Introduction	1 Overview of Bond Features	
		2 Risks Associated with Investing in Bonds	
		 Chapter 2 Pricing of Bonds 	Chapter 2
	Charter 2	1 Pricing a Bond	Exercise
2	• Chapter 2	2 Price Quotes and Accrued Interest	
2	Pricing of Bonds	3 Complications	
		4 Pricing Floating-Rate and Inverse-Floating-Rate Securities	
		5 Price Quotes and Accrued Interest	
		• Chapter 3 Measuring Yield	Chapter 3
		1 Computing The Yield Or Internal Rate Of Return On Any	Exercise
	• Chapter 3	Investment	
3	Measuring Yield	2 Conventional Yield Measures	
		3 Potential Sources Of A Bond's Dollar Return	
		4 Total Return	
		5 Applications Of The Total Return (Horizon Analysis)	
		Chapter 4 Bond Price Volatility	Chapter 4
		1 The Price–Yield Relationship for Option-Free Bonds	Exercise
4	• Chapter 4 Bond Price Volatility	2 Price-Volatility Characteristics of Option-Free Bonds	
		3 Measures of Bond Price Volatility	
		4 Convexity	
		5 Approximating a Bond's Duration and Convexity Measure	
5		National Holiday	

Topical Course Outline



		CAPITAL UNIVERSITY OF ECONOMICS AND BUSINESS	Chapter 5			
	• Quiz 1 • Charton 5					
6 B th	• Chapter 5	• Chapter 5 Factors Affecting Bond Yields and the Term				
	Factors Affecting	Structure of Interest Rates				
	Bond Yields and	1 Base Interest Rate				
	the Term Structure	2 Benchmark Spread				
	of Interest Rates	-	ct			
	• Chapter 5	• Chapter 5 Factors Affecting Bond Yields and the Term	Chapter 6			
	Factors Affecting	Structure of Interest Rates	Exercise			
	Bond Yields and	3 Term Structure Of Interest Rates				
-	the Term Structure	4 Swap Rate Yield Curve				
7	of Interest Rates	• Chapter 6 Treasury and Federal Agency Securities				
	• Chapter 6	1 Treasury Securities and Treasury Action Process				
	Treasury and	2 Stripped Treasury Securities				
	Federal Agency					
	Securities					
	• Chapter 6	Chapter 6 Treasury and Federal Agency Securities	Chapter 6			
8	Treasury and	3 Federal Agency Securities	Exercise			
	Federal Agency	4 China Treasury Auction Process				
	Securities	• <u>Exercise</u>				
9		• <u>Midterm Test</u>				
	• Chapter 7	 Chapter 7 Corporate Debt Instruments 	Chapter 7			
	Corporate Debt	1 Seniority of Debt in a Corporation's Capital Structure	Exercise			
10	Instruments	2 Corporate Bonds				
	Instruments	3 Medium-Term Notes				
		4 Commercial Paper				
	• Chapter 8	 Chapter 8 Municipal Securities 	Chapter 8			
	Municipal	1 Types and Features of Municipal Securities	Exercise			
11	Securities	2 Floaters/Inverse Floaters				
Securities		3 Credit Risk				
		4 Yields on Municipal Bonds				
		 Chapter 10 Residential Mortgage Loans 	Chapter 10			
	• Chapter 10	1 Residential Mortgage Loans	Exercise			
12	Residential	2 Types of Residential Mortgage Loans				
12	Mortgage Loans	3 Conforming Loans				
		4 Risks Associated with Investing in Mortgage Loans				
		• Quiz 2				
		• Chapter 11 Agency Mortgage Pass-Through Securities	Chapter 11			
	• Chapter 11	1 Sectors of the Residential Mortgage-Backed Security Market	Exercise			
	Agency Mortgage	2 General Description Of An Agency Mortgage Pass-Through				
13	Pass-Through	Security				
	Securities	3 Issuers Of Agency Pass-Through Securities				
		4 Prepayment Conventions And Cash Flow				
		5 Factors Affecting Prepayments And Prepayment Modeling				
		6 Cash Flow Yield				
14		• Chapter 12 Agency Collateralized Mortgage Obligations	Chapter 12			
		1 Agency Collateralized Mortgage Obligations	&13			
	•Chapter 12	Chapter 13 Nonagency Residential Mortgage-Backed	Exercise			
	•Chapter 13	Securities				
		1 Collateral Types				
		2 Credit Enhancement				
	• Chapter 14	Chapter 14 Commercial Mortgage Loans and	Chapter 14			
15	Commercial	Commercial Mortgage–Backed Securities	Exercise			
	Mortgage Loans	1 Commercial Mortgage Loans				



	and Commercial Mortgage–Backed Securities	2 Commercial Mortgage-Backed Securities	
16	• Presentation	• Presentation	
17	• Final Revision	PresentationFinal Revision	

Note: During the semester, this course may be switched to on-line teaching; in the case of on-line teaching, Tencent Meeting and WeChat group will be used as main teaching methods. WeChat group will be mainly used to inform students of daily study activities and tasks. Tencent Meeting will be used as main platform to organize study activities.

A review in Chinese may be held during L.C. and O.H. in the semester.

Teacher's Office Hour

- The instructor's office hour is shown in the front of the office door.
- Students are suggested to use the instructor's office hour and learning center to ask questions or talk with the instructor once at least per week for good communication and effective learning, which is recorded in the students' participation.
- The time can be scheduled by instructors or students, or both.

Cheating and Plagiarism

Cheating is not tolerated. Any student caught cheating on a quiz; test or exam will be given a mark of zero (0) for the particular work. At the beginning of the semester the definition of plagiarism will be carefully explained, when any thoughts or writings of another person are used, they must be clearly identified (usually one uses quotation marks) and the source notes. If any student is caught cheating on any homework assignment, the highest score the student can earn in that course is a "C".

Important Dates

Midterm Test	Week 9
Final Exam	Week 18 (Refer to the notice of the Academic Affairs Office)
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Note: This syllabus is tentative and may be changed or modified throughout the semester. All students will be notified and a new syllabus will be given.

Instructor:	<u>张倩</u>	Department Head:					
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