

# Capital University of Economics and Business Overseas Chinese College Course Syllabus

Year and Semester	Fall 2022 (September 5, 2022— January 16, 2023)
<u>Course Name</u>	Fixed Income Securities
<b>Course Code</b>	FI304
<u>Course Type</u>	□ General Education (Required) □ General Education (Elective)
	□Professional Course (Required □ Professional Course (Elective)
	□ Basic Disciplinary Course
<b>Course Credits</b>	3
<b>Course Hours</b>	3*17=51
<u>Prerequisites</u>	None
<b>Instructor</b>	Manqiu Wei (Eunice Wei)
<b>Contact Information</b>	Office: C203
	Tele: (010)8395 1085
	Email:eunicewei2013@163.com
Office Hour	M 11:35-12:20; T 15:25-16:10; W 8:50-9:35; TH 11:30-16:10;
Learning Centre	M 9:55-11:30; T 18-20 (online)
Grade/Section	2019ACCA Y01/Y02
<b>Course Time/Place</b>	Y01 T: 9:55-12:20/A106; Y02 TH: 9:55-12:20/A101

#### **Textbook**

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

# **Reference Books**

- 1. 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	
	20%	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		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.	
	20%	A cumulative midterm test will be given based on all of the contents	
Mid Tame Tast		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.	
Orrigense	15%	There will be at least 2 quizzes during the semester. Quizzes may or may	
Quizzes		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.	
Presentation	10%	The students will be divided into several groups to prepare a presentation. Each student is required to be involved in the presentation. The topics 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.	
Participation	10%	Individuals will be asked to participate individually in a question and 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%

# **Grading Policy**

A+ 97-100	A 93-96	A- 90–92	B+ 87-89	B 83-86	B- 80-82
C+ 75-79	C 70-74	C- 67–69	D+ 63–66	D 62-60	F 0- 59

# Exam Schedule

Midterm Test: Oct.31 – Nov.4, 2022 Final Exam: Jan.4- 13,2023

# 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.

#### *Thomework*

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	Date	Topics	Homework
		• Syllabus	
		• Course introduction	
1		• Chapter 1 Introduction	
		1 Overview of Bond Features	
		2 Risks Associated with Investing in Bonds	
		• Chapter 2 Pricing of Bonds	
		1 Pricing a Bond	
		2 Price Quotes and Accrued Interest	
		3 Complications	
		4 Pricing Floating-Rate and Inverse-Floating-Rate Securities	
2		5 Price Quotes and Accrued Interest	
2		• Chapter 3 Measuring Yield	
		1 Computing The Yield Or Internal Rate Of Return On Any Investment	
		2 Conventional Yield Measures	
		3 Potential Sources Of A Bond's Dollar Return	
		4 Total Return	
		5 Applications Of The Total Return (Horizon Analysis)	

#### **Topical Course Outline**



·	CAPITAL ÚNIVERSITY OF ECONOMICS AND BUSINESS	
	• Chapter 4 Bond Price Volatility	
3	1 The Price-Yield Relationship for Option-Free Bonds	
5	2 Price-Volatility Characteristics of Option-Free Bonds	
	3 Measures of Bond Price Volatility	
4	4 Convexity	
4	5 Approximating a Bond's Duration and Convexity Measure	
5	National Day Holiday	
	• Chapter 5 Factors Affecting Bond Yields and the Term Structure of	
	Interest Rates	
(	1 Base Interest Rate	
6	2 Benchmark Spread	
	3 Term Structure Of Interest Rates	
	4 Swap Rate Yield Curve	
	Chapter 6 Treasury and Federal Agency Securities	
	1 Treasury Securities and Treasury Action Process	
7	2 Stripped Treasury Securities	
	3 Federal Agency Securities	
	4 China Treasury Auction Process	
8	Comprehensive Exercise	
	• <u>Midterm Test</u>	
	• Chapter 7 Corporate Debt Instruments	
	1 Seniority of Debt in a Corporation's Capital Structure	
	2 Corporate Bonds	
	3 Medium-Term Notes	
9	4 Commercial Paper	
	Chapter 8 Municipal Securities	
	1 Types and Features of Municipal Securities	
	2 Floaters/Inverse Floaters	
	3 Credit Risk	
	4 Yields on Municipal Bonds	
	Chapter 10 Residential Mortgage Loans	
	1 Residential Mortgage Loans	
	2 Types of Residential Mortgage Loans	
	3 Conforming Loans	
	4 Risks Associated with Investing in Mortgage Loans	
10	Chapter 11 Agency Mortgage Pass-Through Securities Sectors of the Pasidantial Mortgage Backed Security Market	
	1 Sectors of the Residential Mortgage-Backed Security Market	
	2 General Description Of An Agency Mortgage Pass-Through Security	
	3 Issuers Of Agency Pass-Through Securities	
	4 Prepayment Conventions And Cash Flow	
	5 Factors Affecting Prepayments And Prepayment Modeling	
	6 Cash Flow Yield	
	Chapter 12 Agency Collateralized Mortgage Obligations	
11	1 Agency Collateralized Mortgage Obligations	
11	Chapter 13 Nonagency Residential Mortgage-Backed Securities	
	1 Collateral Types	
	2 Credit Enhancement	
	Chapter 14 Commercial Mortgage Loans and Commercial	
12	Mortgage–Backed Securities	
	1 Commercial Mortgage Loans	
	2 Commercial Mortgage-Backed Securities	



	Chapter 15 Asset-Backed Securities
13	1 Creation of an Asset-Backed Security
	2 Review of Several Major Types of Asset-Backed Securities
1.4	• Chapter 29 Credit Default Swaps
14	Comprehensive exercise
15	• Revision & Quiz
16	• Presentation
17	• Presentation

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. We Chat 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.
- ٠ 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.
- ٠ 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".

	Fall Semester, September 5, 2022– January 16, 2023
Sep.2-4	Registration (Sophomores, Juniors and Seniors)
Sep.5	Classes Begin (Sophomores, Juniors and Seniors)
Sep.10	Mid-Autumn Festival
Oct.1	National Day
Oct.31 – Nov.4	week 9) Midterm Test (tentative)
Jan.1, 2023	New Year's Day
Jan.4-13,2023	Final Exam Period (Sophomores, Juniors and Seniors)

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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.

