

Capital University of Economics and Business

Overseas Chinese College

Course Syllabus

Year and Semester	2025 Spring					
Course Name	Quantitative Method					
Course Code	CFA202					
Course Type	<input type="checkbox"/> General Education (Required) <input type="checkbox"/> General Education (Elective) <input type="checkbox"/> Basic Disciplinary Course <input type="checkbox"/> Professional Course (Required) <input checked="" type="checkbox"/> Professional Course (Elective) <input type="checkbox"/> Professional Course (Expanded) <input type="checkbox"/> Professional Course (Advanced)					
Course Credits	2					
Course Hours	Total Class Hours	32	Lecture Hours	32	Experiment (Computer) Hours	0
Applicable object	<input type="checkbox"/> Freshman <input checked="" type="checkbox"/> Sophomore <input type="checkbox"/> Junior <input type="checkbox"/> Senior <input type="checkbox"/> Information Management and Information Systems (Finance)					
Prerequisites						
Instructor	Lemon Li					
Contact Information	Office: C217					
	Tele: (010)83951082					
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Office Hour						
Learning Centre						
Grade/Section	22CFA					
Course Time/Place	A109					
Textbook	CFA Quantitative Method SchweserNotes 2025					

Reference Book

CFA Quantitative Method 2025 Handbook & Notes

Course Description

The goal of this course is to prepare students to analyze financial issues using statistics. It covers topics in the areas of probability theory, sampling, estimation, hypothesis testing, and regression analysis. While many students taking this class will have already taken courses in statistics and regression analysis, this course will probably place a much stronger emphasis than typical courses on conceptually understanding the quantitative methods. Since the course is targeted to third-year students, we will not shy away from using the mathematical tools needed to develop the conceptual understanding. But the emphasis of the course will be on the conceptual understanding and application of the tools rather than on the math or the mechanics behind the tools. So for example, when studying hypothesis testing, we will place a heavier emphasis on what the test is doing, when to use it and how to interpret its results, than on mechanical repetitions of the calculations involved in conducting the test.

Student Learning Objectives

On successful completion of this exam, candidates should be able to:

Knowledge	<ul style="list-style-type: none"> •Understand and memorize standards and rules of Quantitative Method •Describe the ethical responsibilities •Be familiar with the questions of Quantitative Method in CFA exam •Master the question making skills of Quantitative Method in CFA exam •Be able to establish the relationship between standards, scenarios and behaviors
Capability	<ul style="list-style-type: none"> •Have the understanding of the background of moral norms and logical thinking •Distinguish right from wrong as financial analysts •Apply the code of Quantitative Method in combination with the characteristics of the work scene
Mindset	<ul style="list-style-type: none"> •Cultivate students' professional, integrity, diligence, integrity, fairness and other excellent professional Quantitative Method, and provide excellent financial analysts for the society •Maintain the healthy and sustainable development of the capital market through talent construction

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
Final Exam	20%	A cumulative final examination will be given based on all the contents of the class. The exam paper may be composed of multiple-choice questions, short answer questions, essay questions. Students should rely primarily on homework assignments and class exercise as reference for exams.
Mid-Term Test	20%	A cumulative midterm test will be given based on all the contents that have been taught in class. The content shows the results of the intermediate nodes of the project. It should be completed within 50 minutes in class.
Homework	10%	Most of the assigned homework is taken from the Exercises in the textbook. Assignments will be collected at the clearly stated date.
Quizzes	10%	There will be at least 2 quizzes during the semester. It may also be used to check the attendance. Quizzes will test your theoretical knowledge and application ability.
Presentation	20%	The students will be divided into several groups to prepare a presentation. Each student is required to be involved in the presentation. Each member of the group will receive the group grade with certain weight of his/her contribution. Each group need to finish a code or report of the project, 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 question and answer at least 10 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%	5%
Quizzes	5%	5%
Presentation		20%

Mid-Term 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.

☞ *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.

Topical Course Outline

Week	Topics	Platform	Homework
1	<ul style="list-style-type: none"> ● Syllabus Introduction to Quantitative Method 	Classroom & Chaoxing	
	<ul style="list-style-type: none"> ● Discuss & Exercises 	Classroom & Chaoxing	

2	Rate and Returns	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	
3	Rate and Returns (continued)	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	
4	Time Value of Money	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	
5	Statistical Measure of Asset Returns	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	
6	Probability Tree and Conditional Expectations	Classroom & Chaoxing	
7	● Midterm Test	Classroom & Chaoxing	
8	Portfolio Mathematics	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	
9	Simulation Method	Classroom & Chaoxing	
	● Discuss & Exercises	Classroom & Chaoxing	Process pecification
10	Estimation and Inference		
11	Hypothesis Testing	Classroom & Chaoxing	

	● Discuss & Exercises	Classroom & Chaoxing	
12	Parametric and Non-Parametric test of Independence		
	● Discuss & Exercises	Classroom & Chaoxing	
13	Simple Linear Regression		
	● Discuss & Exercises	Classroom & Chaoxing	
14	Introduction to Big data techniques		
15	Presentation		
16	Final Exam Review		

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".

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: Meng Li

Department Head: Jingning Li

