

Capital University of Economics and Business

Overseas Chinese College

Course Syllabus

<u>Year and Semester</u>	2021 Fall (Sept 6, 2021 - January 14, 2022)
<u>Course Name</u>	考研数学
<u>Course Code</u>	GEE 111
<u>Course Type</u>	<input type="checkbox"/> General Education (Required) <input checked="" type="checkbox"/> General Education (Elective) <input type="checkbox"/> Basic Disciplinary Course <input type="checkbox"/> Professional Course (Required) <input type="checkbox"/> Professional Course (Elective) <input type="checkbox"/> Professional Course (Expanded)
<u>Course Credits</u>	2
<u>Course Hours</u>	34
<u>Prerequisites</u>	MAT111, MAT112
<u>Instructor</u>	Jianming Huang
<u>Contact Information</u>	Office: C217 Tel: (010)83951082 huangjianming@cueb.edu.cn
<u>Office Hour</u>	Mon.: 10:00-12:00 Wed.: 14:30-17:30 Thur. 10:00-11:00
<u>Learning Centre</u>	Tue. 18:00-20:00 Wed. 10:00-12:00
<u>Grade/Section</u>	
<u>Course Time/Place</u>	Th:13:30-15:20 A104
<u>Textbook</u>	

《2021 版考研数学三 15 年真题解析与方法指导》

Course Description

In this course, we will first systematically review the knowledge bodies included in the English textbooks of three basic courses --- Calculus, Linear Algebra, Probability and Statistics. And then we will introduce the knowledge bodies in relevant Chinese textbooks. By a thorough comparison of the English and Chinese textbooks, we aim to help students to recognize the disadvantages and appreciate the advantages of both versions. Finally, we will illustrate all the knowledge points required in mathematics on the graduate school entrance examination for an IT or Business major with a large number of exam and sample problems. Upon the completion of the course, students would have a better understanding of the theories with their problem-solving skills sharpened, which would lay a solid foundation in mathematics for their future study.

Student Learning Objectives

- To recognize the disadvantages and appreciate the advantages of both Chinese and English textbooks.
- To have a better understanding of all the knowledge points required in mathematics on the graduate school entrance examination for an IT or Business major.

- To sharpen problem-solving skills.

Library Sources

Students can find reference books in the library or related materials on the Internet.

Reference Materials

1. 《高等数学》第六版 同济大学出版社
2. 《线性代数》第五版 同济大学出版社
3. 《概率与统计》第四版 浙江大学出版社

Teaching Methods

This course consists of lectures, discussions and individual presentations. Students will be divided into small groups with a group leader to help other students in the group with their study. Students must be prepared to finish some small questions and small quiz during the class. After each chapter there will be some mini presentations which should be held by individuals.

Grade Criterion:

Component	Weight	Description
Final Exam	40%	A cumulative final examination will be given based on all of the contents of the class. A minimum of 25% of the exam (5 of the 20%) will consist of questions utilizing the application of critical thinking.
Mid-Term Exam	10%	A cumulative midterm examination will be given based on all of the contents of the first half of the class.
Homework and Quizzes	30%	There will be 3 quizzes during the semester. The purpose of the quizzes is to ensure that students keep up with the readings.
Participation	10%	Individuals will be asked to participate individually in questions during the semester. Students are required to meet with their teachers every week. Their performances should be counted in their participation.
Attendance	10%	Refer to attendance policy listed below.
Total	100%	

Detailed Grade Calculation

In the semester, the grades of attendance, participation, homework assignments, and quizzes account for 60 percent of a student's final grade, and the midterm exam and final exam both account for 20 percent of the final grade. 40 percent of the final grade comes before midterm and 60 percent after midterm, as shown in the following table:

	Before midterm	After midterm
Attendance	5%	5%

Participation	5%	5%
Homework and Quizzes	20%	10%
Midterm exam	10%	
Final exam		40%
Total	40%	60%

Grading Policy

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

Exam Schedule

- **Midterm:** **Nov. 1-5, 2021**
- **Final Exam:** **Jan 5-8, 2022**

Homework

Students should finish their homework (except for group projects) by themselves. **Copying from others will be treated as cheating. Students' homework scored will be lowered.** Students should hand in all assignments promptly and on time. Late assignment will be accepted at the discretion of the instructor (i.e., when the student was ill or had an excused absence). Assignment turned in late without proof of illness or had an excused absence will be reduced in score by 50%.

Assignment should be printed out. Anything that cannot be read will be marked wrong. Printing requirements are as followed: single space between lines, double space between paragraphs, font size is 12 (maximum).

Attendance

Being late for 15 minutes will result in unexcused absence. Each unexcused absence will result in 10% reduction of attendance grade. Five hours of unexcused absences will result in the lowering of grade by one level, i.e. A to A-. **17 class hours** of absences under any circumstances forces a withdrawal

from the course and get a grade of “F”. An excused absence must be discussed directly with the teacher. An incomplete grade (I) will be considered in case of medical or family emergencies. **Students must bring their textbooks to class.**

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 hour to ask questions or talk with the instructor for good communication and effective learning. Any misbehavior and non-class related activities in class will result in the lowering of the participation grade, including ringing beepers and cell phones. Student better frequent visit their instructors and chat in English everyday. All above behaviors will be solely evaluated by the instructor for scoring.

Topical Course Outline

Week	Topics
1	Syllabus & Orientation Overview of Calculus
2	Part 1
3	Part 2
4	Part 3
5	National Holiday
6	Recitation 1
7	Part 4
8	Part 5
9	Part 6
10	Recitation 2
11	Part 7

12	Part 8
13	Part 9
14	Recitation 3
15	Part 10
16	Final Review
17	Final Exam

Teacher's Office Hours

The instructor's office hour is shown in the front of the office door. Students are required to use the instructor's office hour 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.

Withdrawal Policy

Students can drop the class in the first week of the semester without leaving any marks to the final grade. However anyone with 24 hours absences automatically receives an F.

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.

Important Dates

Sep. 5	Registration (Sophomores, Juniors and Seniors)
Sep. 6	Classes Begin (Sophomores, Juniors and Seniors)
Sep. 10	Last Day to Drop or Add a Course (Sophomores, Juniors and Seniors)
Sep. 18	Registration (Freshmen)
Sep. 20-24	Entrance Education (Freshmen)
Sep. 21	Mid-Autumn Festival
Sep. 27	Classes Begin (Freshmen)

Oct. 1	National Day
Nov. 1-5	Midterm Test
Jan. 1, 2022	New Year's Day
Jan. 1-4	Revision (Sophomores, Juniors and Seniors)
Jan. 5-14	Final Exam Period (Sophomores, Juniors and Seniors)
Jan. 10-14	Final Exam Period (Freshmen)
Jan. 17	Winter Vacation Begins

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: Jianming Huang

Department Head: Jingning Li

