

Capital University of Economics and Business

Overseas Chinese College

Course Syllabus

Year and Semester	2026 Spring					
Course Name	Java Programming					
Course Code	MIS104					
Course Type	<input type="checkbox"/> General Education (Required)		<input type="checkbox"/> General Education (Elective)		<input type="checkbox"/> Professional Course (Required)	
	<input type="checkbox"/> Basic Disciplinary Course		<input type="checkbox"/> Professional Course (Expanded)		<input checked="" type="checkbox"/> Professional Course (Elective)	
	<input type="checkbox"/> Professional Course (Advanced)					
Course Credits	2					
Course Hours	Total Class Hours	32	Lecture Hours	16	Experiment (Computer) Hours	16
Applicable object	<input checked="" type="checkbox"/> Freshman <input type="checkbox"/> Sophomore <input type="checkbox"/> Junior <input type="checkbox"/> Senior <input type="checkbox"/> Business Administration (Accounting) <input checked="" type="checkbox"/> Information Management and Information Systems (Data Governance)					
Prerequisites	None					
Instructor	Jingning Li					
Contact Information	Office: C217					
	Tele: (010)83951082					
	Email: lijingning@cueb.edu.cn					
Office Hour	WTH: 09:55-11:30; F: 13:30-15:05					
Learning Centre	M: 15:25-17:00, 18:00-20:00 (online)					
Grade/Section	2025 级 IT1 班 2 班					
Course Time/Place	M: 9:55-11:30 (B311)					
Textbook	H. M. Deitel and P. J. Deitel. <i>Java How to Program</i> . Publishing House of Electronics Industry, Beijing, ISBN 978-7-121-18188-7.					

Reference Book

John Lewis and William Loftus. *Java Software Solutions Foundations of Program Design, 6th Edition*, ISBN 978-7-121-08808-7.

Course Description

This course is an introduction to programming computers. It is the main introductory course in the Information Technology department and is taken by students from a variety of disciplines wishing to have an understanding of computer programming as well as students wanting to continue on to further studies in Information Technology.

We teach programming using the cross-platform, object-oriented programming language Java. The main focus is on learning to understand the detailed requirements of a programming task, and writing programs

that are well structured, correct, easy to read, and to maintain. In order to do these, students need to develop an understanding of how to represent information both as data and algorithms within the objects of a Java program.

By the end of the course students who succeed are able to understand how to use Java language to develop a program, understand how to use the commands to build their program, and design and implement a computer program as well as have some idea of the process of program execution. At last, students should finish their project independently.

Student Learning Objectives

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

Knowledge	<ul style="list-style-type: none"> • Understand Java language • Recognize the differences between C and Java language • Understand the steps to design a program.
Capability	<ul style="list-style-type: none"> • Apply Java language to write a modestly complex program involving multiple functions • Apply database to work with a Java program • Design and test each function
Mindset	<ul style="list-style-type: none"> • Develop the quality and morals of being objective, integrity and dedication. • Be logical, ethical, methodical, consistent and accurate • Apply critical thinking in the process of decision making • Cultivate the spirit of Xi Jinping Economic Thought

Website Source

Java API: <https://docs.oracle.com/javase/1.5.0/docs/api/>

Teaching Methods

This course consists of lectures, video preview, lab practice, group discussions, study groups, hands-on projects, group presentation, and lab quiz. Students must be prepared to finish some small questions, small quiz, and programming test about the assigned chapters during the class and the lab class.

Grade Criterion

Component	Weight	Description
Final Exam	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 questions, short answer questions, essay questions, problems, and preparation of financial statements. Students should rely primarily on homework assignments to give them a sense of what they may see for material on exams.
Mid-Term Test	20%	A cumulative midterm test will be given based on all of the contents that have been taught in class. The test paper may be mainly composed

		of multiple-choice questions and it should be completed within 15 minutes in class.
Homework	15%	Most of the assigned homework is taken from the Exercises in the textbook. Assignments will be collected at the clearly stated date. Late assignments will not be accepted. The graded assignments will be kept by the tutor for reference and won't be returned to students.
Quizzes	15%	There will be at least 2 quizzes during the semester. Quizzes may or may 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. Each group need 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%
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 (original)

Week	Topics	Platform	Homework
1	<ul style="list-style-type: none"> • Syllabus • Introduction to Java (using the <i>Java Coffee Can</i>), setup Java environment, and make the first Java program - FirstProgram.java, Escape sequence (Textbook: Chapter 1, Chapter 2) (Xuexitong: Chapter 1.1-1.5) 	Classroom & Mosoteach	<ul style="list-style-type: none"> • Buy the textbook, Supplementary Materials • Setup Java environment on pc • FirstProgram.java、 Ex1 & Ex2 • Optional homework: "How to make a cup of Chinese tea"
	<ul style="list-style-type: none"> • Homework answers time • Pre-test • Introduction to computer system, computer languages, Java programming language (Textbook: Chapter 1) (Xuexitong: Chapter 1.6) 	Classroom & Mosoteach	<ul style="list-style-type: none"> • Check the textbook, Supplementary Materials • Mini-test on knowledge Escape sequence • Paper homework: Exercises 1 on page 13

			<ul style="list-style-type: none"> Optional homework: gift for teachers
2	<ul style="list-style-type: none"> Homework answers time Checking test Details of Java syntax, variables, symbolic constants, displaying output, operators (part 1: Slider 16) (Textbook: Chapter 3, Appendix A, Appendix D) (Xuexitong: Chapter 1.7, 2.1-2.4) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Output of slider 14 Mini-test on displaying output
	<ul style="list-style-type: none"> Details of operators (part 2) and data type conversion Lab Practice: Ex1-4 (Textbook: Chapter 3, Appendix A, Appendix D) (Xuexitong: Chapter 2.5-2.8) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Ex1-Ex4 from the PPT Paper homework: Exercises 2 on page 20-21
3	<ul style="list-style-type: none"> Homework answers time Checking test Details of Java variable types, flow of control, Boolean expressions, conditional statements (Part 1: Slider 20) (Textbook: Appendix G, Chapter 4) (Xuexitong: Chapter 3.1-3.4) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Ex2-Ex4 from the PPT
	<ul style="list-style-type: none"> Homework answers time Checking test Details of conditional statements (from Slider 20) Details of iteration, repetition statements Lab Practice: Ex3-7 (Textbook: Chapter 5) (Xuexitong: Chapter 3.5-3.8) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Ex5-Ex7 from the PPT Paper homework: Exercises 3 on page 25-27
4	<ul style="list-style-type: none"> Details of comparing data Checking L3 Exercises Details of classes and methods Details of static methods (such as Integer class, Double class, String class, Math class) (Textbook: Chapter 6) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Start Assignment 1
	<ul style="list-style-type: none"> Review the static methods from the last class Details of instance methods, and the return statement (Textbook: Chapter 6, Chapter 18) 	Classroom & Mosoteach	<ul style="list-style-type: none"> Submit Assignment 1 Step 1
5	Qingming Festival		
6	<ul style="list-style-type: none"> Show up the last lecture's answers 	Classroom	

	<ul style="list-style-type: none"> • Quick check: random, switch • Introduce Flow Chart • Review instance method and the return statement • Mini-Test (covers week1 - 3 knowledge) • Exercise 7-9 (Textbook: Chapter 3.9, Chapter 6, Chapter 21)	& Mosoteach	
	<ul style="list-style-type: none"> • Check Exercise 6-9 answers one by one (L4) • Details of Java API packages, user input, exception handling • Exercise 4 (p.36-37) (Textbook: Chapter 6, Chapter 21)	Classroom & Mosoteach	
7	<ul style="list-style-type: none"> • Check Exercise 4 answers • Method case study – Part 1 (L5) • Method case study – Part 2 (L5) (Textbook: Chapter 6, Chapter 21)	Classroom	
	<ul style="list-style-type: none"> • Answer students questions on L5 Exercises and exception handling (Part 2 & Part 3) • Method case study – Part 3 (L5 homework) • Check method case study – Part 1-3's answers (L5) 	Classroom & Mosoteach	<ul style="list-style-type: none"> • Details of exception handling • Lab Practice on exception handling • Answer students questions on L5 Exercises and exception handling
8	<ul style="list-style-type: none"> • Details of objects • Details of instance classes • Details of Constructor (Textbook: Chapter 8, Chapter 9, Chapter 10, Chapter 11)	Classroom & Mosoteach	<ul style="list-style-type: none"> • Details of instance classes
	<ul style="list-style-type: none"> • Details of Scope of Declarations • Details of Access Specifiers • Cover: Java syntax, variables, symbolic constants, displaying output, operators, data type conversion, Boolean expressions, conditional statements, repetition statements, comparing data, static methods (such as Integer class, Double class, String class, Math class), instance methods • Closed-book, and one hour quiz 	Classroom	
9	Labor Day Holiday		
	<ul style="list-style-type: none"> • Show up Quiz's answers and answer students' questions • Review Scope of Declarations, Access Specifiers • Review: Java syntax, variables, symbolic constants, displaying output, operators, data type conversion, 	Mosoteach	<ul style="list-style-type: none"> • Self-study details: UML diagrams • Start to submit Assignment 1 version 1

	<p>Boolean expressions, conditional statements, repetition statements, comparing data, static methods (such as Integer class, Double class, String class, Math class), instance methods, object class</p> <ul style="list-style-type: none"> • Answer students' questions 		<p>(within one class)</p> <ul style="list-style-type: none"> • Start Assignment 1 version 2 (with Array)
10	<p>Midterm Test</p>	<p>Classroom & Mosoteach</p>	
	<ul style="list-style-type: none"> • Show up the Mid-Term Exam's answers • Details of arrays, creating arrays, accessing array elements • Details of iterators (Textbook: Chapter 7, Chapter 13) 	<p>Classroom & Mosoteach</p>	<ul style="list-style-type: none"> • Start to submit Assignment 1 Version 3 (with instance methods, classes, arrays, and classes inheritance) (Textbook: Chapter 8, Chapter 9, Chapter 10, Chapter 11)
11	<ul style="list-style-type: none"> • Details of two-dimensional arrays, the ArrayList class (Textbook: Chapter 7, Chapter 13) 	<p>Classroom & Mosoteach</p>	<ul style="list-style-type: none"> • Introduce Assignment 2 • Make group and topic
	<ul style="list-style-type: none"> • Details of Inheritance, the protected modifier, the super reference, multiple inheritance, overriding methods, class hierarchies, the object class, abstract classes, interface hierarchies, visibility revisited, designing for inheritance (Textbook: Chapter 9) 	<p>Classroom & Mosoteach</p>	
12	<ul style="list-style-type: none"> • Details of GUI, JFrame, Graphic Objects, drawing with graphics, drawing shapes (such as lines, rectangles, ovals, arcs, polygons and polylines) (Textbook: Chapter 12) 	<p>Classroom & Mosoteach</p>	
	<ul style="list-style-type: none"> • Details of drawing images, drawing Strings, font control, color control • Details of loading, display and scaling images, animating a series of images, loading and playing audio clips • Make a Card using JFrame, Fonts, Shapes, Colors, Pictures and audio clips (Textbook: Chapter 21) 	<p>Classroom & Mosoteach</p>	<ul style="list-style-type: none"> • End Assignment 1 Version 3
13	<ul style="list-style-type: none"> • Details of Swing package, layout managers, null layout, FlowLayout, BorderLayout, GridLayout, BoxLayout, GridBagLayout (Textbook: Chapter 11) 	<p>Classroom & Mosoteach</p>	<ul style="list-style-type: none"> • Start Assignment 2
	<ul style="list-style-type: none"> • Details of basic GUI components, JLabel, JButton, JComboBox, JTextField, JTextArea, JCheckBox, JRadioButton, JList, JSlider 	<p>Classroom & Mosoteach</p>	

	(Textbook: Chapter 11, Chapter 22)		
14	<ul style="list-style-type: none"> Details of event handling, mouse event handling, key event handling, adapter classes (Textbook: Chapter 11, Chapter 22) 	Classroom	<ul style="list-style-type: none"> Continue doing Assignment 2
	<ul style="list-style-type: none"> Quiz Cover: JFrame, Graphic Objects, drawing with graphics, drawing shapes (such as lines, rectangles, ovals, arcs, polygons and polylines), drawing images, drawing Strings, font control, color control Closed-book, and one hour quiz 	Classroom & Mosoteach	
15	<ul style="list-style-type: none"> Details of Panels, JDesktopPane and JInternalFrame, JTabbedPane (Textbook: Chapter 22, Chapter 11) 	Classroom & Mosoteach	
	<ul style="list-style-type: none"> Details of menus, JPopupMenu, user dialogs (Textbook: Chapter 22, Chapter 11) 	Classroom & Mosoteach	
16	<ul style="list-style-type: none"> Details of input & output streams, InputStream class, OutputStream class, Buffered Streams, File class, Read from Files, Write to Files, File methods, Readers & Writers, Reading Text Files, Writing Text Files (Textbook: Chapter 14) 	Classroom	
	<ul style="list-style-type: none"> Review: Java syntax, variables, symbolic constants, displaying output, operators, data type conversion, Boolean expressions, conditional statements, repetition statements, comparing data, static methods (such as Integer class, Double class, String class, Math class), instance methods, arrays, GUI, JFrame, Graphic Objects, drawing with graphics, drawing shapes (such as lines, rectangles, ovals, arcs, polygons and polylines), layout managers, null layout, FlowLayout, BorderLayout, GridLayout, BoxLayout, GridBagLayout, basic GUI components, JLabel, JButton, JComboBox, JTextField, JTextArea, JCheckBox, JRadioButton, JList 	Classroom	<ul style="list-style-type: none"> Submit presentation files online Submit Assignment 2: Report (Introduction – background, problem, purpose; design; results; conclusion – bugs and sth. haven’t made), PPT, Program (Greenfoot/Alice3 – 10min Flash)

Note: Some chapters or sections may leave for self-study, this is the students' duty to learn and understand, they may also be included in the quizzes or exams. 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 or 10
Final Exam	Week 17 or 18 (Refer to the notice of the Academic Affairs Office)

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: Jingning Li

Department Head: Jingning Li

