



中央民族大学
MINZU UNIVERSITY OF CHINA

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Minzu University of China
CS302 Programming in JAVA
Summer 2020

Basic Information

Class hours: Monday through Thursday, 2 hours each day

Discussion: Friday, 1 hour (60 minutes)

Review Section: Saturday, 1 hour (60 minutes)

Office Hour: 2 hours (According to professors' teaching plan)

Field trip: According to professors' teaching plan

Credit: 4

Total contact hours: 60 (50 minutes each)

Instructor: TBA

Synopsis

Learning a programming language is an exciting and fun experience. Programming skills are essential in many modern careers in science, technology, engineering and business. The course will allow students to expand dramatically the scope of things that they can do with computers. While the course will be focused on Java, we will discuss more general programming concepts such as development of algorithms. The course is designed for students with no prior programming experience.

Objectives

At the end of the course, the students will be able to install java runtime environment (JRE) on their computers and write functional Java code to implement algorithms of simple to moderate complexity. Students will be able to use reference materials independently to enhance and complement their programming skills and knowledge. Students will acquire conceptual understanding of object-oriented programming concepts, including composition, inheritance, and polymorphism.

Textbook

Introduction to Java Programming, Comprehensive, 11th Edition (2011), by Y. Daniel Liang, Armstrong
ISBN 13: 978-0-13-467094-2; ISBN-013-467094-9 (Recommended)

Teaching Methods

Lectures: Important materials from the text will be covered in class. Students should plan to take careful notes. Class discussion is encouraged

Homework: Four programming assignments will be given to reinforce materials in the class

Quizzes (“Short tests during class”): Occasional unannounced quizzes will be given to help ensure students keep up with assigned materials. Up to 5 quizzes will be given in class.



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Exams: Two exams will be given. Each exam will be closed book/notes/computer/smart phone, and will test materials discussed in class. The midterm exam is scheduled on 7/30/20. The Final exam is on 8/13/20. The Final Exam is comprehensive

Participation: Class attendance is mandatory

Teaching Assistant: The TA will be available each Friday for 1 hour “Discussion”, and 1 hour “review Section” .

Course Policies

Missed Classes: The student is responsible for obtaining material discussed or distributed in class when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours. Missed or late quizzes (ie, “short tests during class”), tests or exams cannot be made up under any circumstances but with good cause and adequate notice, an early quiz may be given. One quiz (lowest score) will be dropped at the end of the semester.

Assignments: All assignments are due at the beginning of class on the date due. Late submission of assignments will be assessed a penalty of 10% per day. No exceptions are made.

Academic Dishonesty: Plagiarism and cheating are serious offenses and may be punished by failure on exam, or failure in course. For more information refer to the "Principles of Academic Integrity" in the official course syllabus and the policy in the University Undergraduate Catalog. For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned exercises for quizzes, tests and exams. In other words, students should not "work together" on graded assignments.

Need for Assistance: If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined here and in the official course syllabus, or which will require academic accommodations, please notify your Summer 2020 Academic advisor/office as soon as possible.

Incomplete Policy: Students will not be given an incomplete grade in the course. In any case, for a student to receive an incomplete, he or she must be passing and must have completed a significant portion of the course.

Grading

Exercises (short tests during class, 5 tests 4% each):	20%
Homework (programming assignments, 4 assignments 10% each):	40%
Midterm Exam:	20%
Final Exam:	20%

Final Grade Scale

A+ 97-100; A 94-96; A- 90-93;
B+ 87-89; B 84-86; B- 80-83;
C+ 77-79; C 74-76; C- 70-73;
D+ 67-69; D 64-66; D- 60-63; F < 60

Course Plan

All items in the syllabus and this supplemental syllabus are subject to change at the discretion of the Instructor and the Office of Academic Affairs.



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Week	Topic	Assignment/Test/Exam Due Date
1	Introduction to Java Programming	
	Java Programming Environment	
	<i>Homework No. 1 available 7/16/20</i>	<i>Due 7/19/20 (11:59 pm)</i>
	Selections	
2	Loops	
	Methods	
	Arrays	
	<i>Homework No. 2 available 7/23/20</i>	<i>Due 7/26/20 (11:59 pm)</i>
	Object and Classes	
3	Inheritance and Polymorphism	
	Exception Handling	
	Midterm Exam on 7/30/20	7/30/20
	<i>Homework No.3 available 7/30/20</i>	<i>Due 8/2/20 (11:59 pm)</i>
4	GUI Programming:	
	JavaFX	
	Event-Driven Programming	
5	Data Structures and Algorithms	
	Review	
	Final Exam on 8/13/20	8/13/20