

Queens College
Object Oriented Programming in Java
CSCI 212 (54490)
Spring 2019
Instructor: Krishna Mahavadi

Course Description. : Object-oriented algorithmic problem solving in java, with attention to general as well as language-specific issues including applications, event-driven programming; elements of graphical interfaces (GUIs); inheritance and polymorphism; recursion; file I/O; Exception handling; packages; generics; dynamic data structures like linked lists, array lists; testing and debugging; applications of simple data structures; applets; multithreaded programming.

Prerequisites. CSCI 111.

Required text:

Walter Savitch:

Java An Introduction to Problem Solving & Programming, 8th Edition

Pearson, 2018

ISBN-13 978-0-13-446203-5.

Learning Goals. A solid understanding of the fundamental concepts of Objected Oriented programming and the Java language. Successful students will be able to write correct and complete Java implementations of homework projects. Successful students will also complete exam questions that test knowledge of Java and be able to write programs at the level required by employers when you apply for internships or jobs.

Course Topics:

Introduction to Java programming and fundamentals (Chapters 1 and 2)

Decision Structures and loops (Chapters 3 and 4)

Classes and Methods (Chapters 5 and 6)

Arrays (Chapter 7)

Inheritance, Polymorphism and Interfaces (Chapter 8)

Exceptions (Section 9)

File Input/Output (Chapter 10)

Graphical User Interfaces (Spread over all chapters)

Recursion (Chapter 11)

Generics, ArrayLists, LinkedLists (Chapter 12)

Instructor:

Krishna Mahavadi

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office hours: Tuesday 12noon – 1pm

Thursday 12noon – 1pm

or by appointment.

Course Website:

<http://venus.cs.qc.edu/~krishna/cs212/>

Classes:

Tuesday and Thursday.

9:00 am – 9:50 am, SB C205

Reminder:**The class will not meet on:**

Tuesday, February 12

April 19-28 Spring Recess

Requirements:

One in class midterm exam and a final exam (all cumulative).

The final counts for 50% of the course grade.

The midterm counts for 30% of the grade.

Quizzes and homework count for a total of 20% of the course grade.

Students who score less than 60% in total will receive no more than a C- for the course.

Students who score less than 12/20 for their lab grade will receive no more than a C- for the course.

Exam dates:

Midterm: Tuesday, 03-21-2019 (in class)

The final exam will be scheduled by the college.

Policies: Anyone who misses the final exam will get a D for the class, or in the case of a good, sufficient and unanticipated reason might qualify for an incomplete.

There will not be a replacement midterm exam for any student except in the case of an unexpected documented medical emergency or other similar extenuating circumstance.

Try to come on time for all exams so that you can make use of the full time. Late comers will not get extra time.

Everyone must take the final exam on the day set by the college at the set time.

Those who miss the final will not be given a make up final. No one should make any arrangements to travel during the finals week until all exams are complete. I will not give any early final exams.

Academic dishonesty such as plagiarism or cheating will be dealt with seriously in accord with the University's policy on academic integrity. Homework will be checked for plagiarism. If work is copied all students involved will automatically receive a score of zero on the assignment.