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

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 (Chapter 12)

Instructor:
Krishna Mahavadi
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office: SB A201
office hours: Monday 12noon – 1pm
Tuesday 6pm – 7pm
or by appointment.

Course Website:
http://venus.cs.qc.edu/~krishna/cs212/

Classes:
Monday and Wednesday.
8:00 am – 8:50 am, SB C205
Reminder:
The class will not meet on:
Monday, September 3
Monday, September 10
Wednesday, September 19
Monday, October 8

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 20% of the grade.
Quizzes and homeworks count for a total of 30% of the course grade.
Quizzes count for 20 points of the lab grade and homework for 10 points of the lab grade.
There may be a project which will be of pass/fail type. It would be required but wouldn’t change the grade distribution.
You need to pass the lab separately by scoring at least 18/30.
Students who score less than 60% in total will receive no more than a C- for the course.

Exam dates:
Midterm: Monday, 10-29-2018
Final: Monday, 12-17-2018 (8:30 am to 10:30 am)

Policies: If any one misses the midterm exam, their final exam score will be used in its place.
Anyone who misses the final exam will fail the class, or in the case of a good, sufficient and unanticipated reason
might qualify for an incomplete.
Try to come on time for all exams so that you can make use of the full time. Late comers will not be given any extra
time as there is a class in C205 at 9:00 am.
Everyone must take final exam on the day set by the school 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.

Homework must be submitted on or before the published deadline, late homework will not be accepted. Homeworks
that do not compile will automatically be given a score of zero. No make up quizzes and midterms will be given.
Academic dishonesty such as plagiarism or cheating will be dealt with seriously in accord with the University’s policy
on academic integrity.