Vanier College
Continuing Education

Course Title : Programming in Java
Course Number : 420-980-VA
Section: 5101
Semester : Winter-2015

Teacher : Shamima Mithun
Office : N-242
E-mail : through MIO
Office Hours : By appointment

Introduction

Welcome to Programming in Java. This course is a hands-on introduction to writing programs in the Java programming language. It is designed for students with no prior experience with programming to understand and use fundamental Java elements such as the Java primitive data types, references, objects, branches, loops and functions, as well as some of the most commonly used class libraries.

Statement of Competencies

Number	Description
HS05	To learn an object-oriented programming language

Course Objectives and Specific Elements of Competencies

At the end of the course, students will be able to do the following:

- Solve simple programming problems involving calculation, simple input and output, decisions, and loops
- Develop, trace, and debug algorithms
- Code algorithms, using appropriate features of the Java language
- Use the Java programming environment and a suitable text editor to create, compile, and run Java programs
- Understand the main features of the object model
- Plan and code Java programs using objects and methods of both standard pre-defined and user-defined classes
- Develop and test Java programs, emphasizing logic and structure

Teaching Method

The course weekly schedule is comprised of two lectures and two lab periods.

During lectures, new concepts and programming techniques are introduced and example problems are solved and explained in detail. Students are encouraged to participate in class discussions, asking questions about the topics covered and offering possible answers to questions raised.

During lab periods, students will work on their assignments practicing the material covered in lectures. Students are expected to study the assigned problems prior to attending the labs, so that they maximize their lab time on developing and testing their solutions.

Evaluation

- Grading Scheme:

Course Component	Grade Value	Date in the Semester
Midterm Exam	25%	Week 4
Final Exam	35%	Week 7
8 Assignments	40%	

- To pass the course, students must obtain a passing mark (60%) on the weighted average of the exams. Failure to do so will result in a final mark for the student to be the average of the exams. *No make-up exam will be given*.
- Students must demonstrate their assignments during the lab periods when the assignments are due. In addition, students are expected to answer questions pertaining to the assignment they hand in for evaluation.
- The penalty for late assignments is 10% per day. Assignments submitted more than 1 week after the due date will not be accepted.

Necessary Textbook and Materials

Title : Starting Out with Java: From Control Structures through Data Structures (2nd Edition)
ISBN : 9780321545862
Author : Tony Gaddis, Godfrey Muganda
Publisher : Pearson Education

Course Contents

- Introduction to Computers and Java (Chapter 1)
- Java Fundamentals (Chapter 2)
- Decision Structures (Chapter 3)
- Loops and Files (Chapter 4)
- Methods (Chapter 5)
- A First Look at Classes (Chapter 6)
- Text Processing and More about Wrapper Classes (Chapter 10, Selected Sections)

References

Online Trail: Learning the Java Language
http://docs.oracle.com/javase/tutorial/java/
Java Platform SE 7, API Specification
http://docs.oracle.com/javase/7/docs/api/

Attendance

Consistent attendance is strongly recommended. Whether or not present class and/lab lab periods, students are *responsible* for regularly logging into Omnivox to obtain information about the topics covered, homework problems assigned, and announcement made. *No* special help will be provided to students who do not attend the scheduled lectures and labs.

Lab Policy

Anyone caught playing games, watching videos, using illegal software, or eating in any of the labs will be fined up to $20. Please see posted notes in lab D-210 and D-242 for rules and consequences when those rules are not adhered to.

Professionalism

Students are expected to conduct themselves in a professional manner while in both the lab and theory class. This includes arriving at their scheduled lab/theory class on time and prepared, having read the lab activity ahead of time, and completed assigned work. Students are to remove headphones and to turn off cell phones, iPods, MP3/4 players, pagers, etc. during all labs and theory classes. Students who are consistently late for class (lab, theory) may be refused entry.

College Policy

The college policies on: academic complaints (see (see college policy 7210-8); cheating and plagiarism (see 7220-31); religious holy days absences (see 7210-20); missed examinations/tests (see 7210-4); student misconduct in the classroom (see 7210-19); and zero tolerance (see 7110-2)) will be followed.

Cheating and Plagiarism

The college policy on cheating and plagiarism (7220-31) will be strictly adhered to. Any form of cheating or plagiarism will result in a grade of zero on the test assignment, and a letter from the teacher will be placed in your file. A repeated offense may lead to even more serious consequences. Please consult the Vanier Student Writing Guide, the Vanier College Catalogue, the Student Handbook, and your teacher for more information.

Mediation and Grades Review

There are two committees available to the student for resolution of academic complaints:

1. The Grades Review Committee to review complaints concerning the grading of a student's work.
2. The Faculty Mediation Committee to review academic complaints other than those dealing with student grades.