Host College: **Loyalist College Java**
Course Name: **Introduction LO-**
Course Code: **COMP8014**
Course Duration: **40 Hours, 14 Weeks**
Ministry Category: **Funded Course**
Outline Effective: **September 201**8

Prerequisite:
Students will be expected to download and install programs as well as upload zipped/compressed files; therefore, some experience with these types of tasks is necessary. Most students use Windows Operating System but Java can be installed on Apple or Linux Operating System as well (students should be familiar with the Operating System).

Course Description:
This course provides the beginning programmer with a guide to developing applications using the Java programming language. Java provides an excellent environment for students to build programs while learning the basics of structured and object-oriented programming techniques. This course covers object-oriented programming concepts including: creating and using classes and methods, loop structures, String method, If/Then/Else, JOptionPane Class and arrays.

Learning Objectives:
Upon successful completion of this course, you will:

- Write Java classes, methods and instantiate objects
- Create, save, and compile Java applications
- Create Java applications using GUI output
- Correct errors and find help
- Use Java data types
- Use automatically imported, prewritten constants and methods
- Write classes using Java code structures (If, While, For, Arrays) Manipulate string data and characters

Teaching/Learning Methods:
During this course students are likely to experience self- directed learning at their own individual pace, and contact with the instructor. In addition, the opportunity to submit questions and comments both privately and to a public discussion area will be available. Students will be required to submit assignments and complete a final coding assignment.

Course Topics:
The course consists of learning the following topics:
- Creating your first Java Classes
- Using Data
- Using Methods, Classes, and Objects More Object Concepts
- Making Decisions Looping
- Characters, Strings, and the StringBuilder
- Arrays

Evaluation:

Assignments	30%
Quizzes (5 in total)	10%
Midterm Exam	30% not proctored, open-book, 1 hour
Final Coding Assignment	30%
Total	100%

Final Exam:
There is no final exam in this course.

Minimum Passing Grade:
Students must achieve a final total grade of at least 60% in the course to pass the course.

Deadlines:
Meeting deadlines is central to the software industry. If you want to get ahead of your competition and keep your clients, you must meet your deadlines in providing a software package. Therefore, in this course deadlines on assignments will be absolute. "Late" is defined as one minute past the deadline set by the professor/instructor for completion of your project/assignment. A missed deadline will get a 25% reduction. Twenty-four hours later, it will get a "0".

Extensions:
May be granted under extenuating circumstance only is at the discretion of your instructor.

Final Grade:
The final grade will be issued by the registering college. The minimum passing grade is 60%

Course Evaluation:
All evaluations are reviewed by the Host College and OntarioLearn. Student feedback via the evaluations provides the foundation for maintaining high standards in all OntarioLearn courses.

Required Text:
Java Programming, 9th edition
Joyce Farrell
Thomson Course Technology
ISBN-10: 1337397075 | ISBN-13: 978-1337397070

The latest Java Software Development Kit (SDK or JDK) can be downloaded at http://www.oracle.com and JGRASP (a Java development environment) at http://www.jgrasp.org/. Students already familiar with a particular Java editor or development environment may use it instead of JGrasp.

Minimum Technology Requirements:
- Personal computer with required disk space and software (see below)
- Internet connection
- Students should have experience with storing files, using the Internet, zipping and uploading files and sending email

Unique Hardware Requirements:
- Minimum Pentium III 500-MHz system with 512 MB RAM and at least 850 MB disk space

Unique Software Requirements:
- Operating System (Windows, Linux, Mac)
- Web Browser (IE, Firefox, Opera, etc.)
- File compression/zip software (WinRAR or other)
- Java SE 8.0 (Java SDK) or better
- Java editor (JGrasp, Textpad, BlueJ, Eclipse, etc.)

It is the student's responsibility to retain course outlines for potential future need such as credit transfers.

Prepared By:
Name: Janeil Neilsen
Date: January 2012
Revised: Sep 2018

More information for Loyalist registered students:

Loyalist College has a Violence Prevention policy:
- All College members have a responsibility to foster a climate of respect and safety, free from violent behaviour and harassment.
- Violence (e.g. physical violence, threatening actions or harassment) is not in any way acceptable behaviour.
- Weapons or replicas of weapons are not permitted on Loyalist College property.
- Unacceptable behaviour will result in disciplinary action or appropriate sanctions.

More information can be found in the Loyalist College Student Manual