Introduction to Java Programming
2019 Syllabus

Instructor: Maxwell Young

Class Schedule: Tuesdays, 5:00pm - 7:00pm
       5 classes total (see below)

Location: Emerson Family School, room to be announced

Online Resources: http://www.maxwellyoung.net/teaching.htm

Course Description: This course is aimed at students who have little to no programming experience. Over 5 classes, this course will provide a gentle introduction to the Java programming language. Students who are dedicated and interested in gaining basic programming experience with a widely-used language will find the material in this course useful.

Main Goals: The main goal is for students completing this course is to develop the basic skills that allow for the conceptualization, creation, and debugging of Java programs. The skills acquired in this class will allow students to pursue more advanced Java-programming topics, as well as provide insight to other imperative programming languages. The content that will be covered includes the following:

- variables, data types, operators
- program flow control: if-else, switch, for and while loops
- methods and attributes
- basic data structures
- file input and output
- object oriented programming (OOP)

See below for a tentative schedule of topics to be covered.

Expectations for Students: Students must be able to type on a keyboard and follow directions. It is important that students make very effort to attend ALL classes since the material in later classes will build on material from earlier classes. If a student misses class, that student is responsible to catching up on their own time.

Textbooks and Materials: No textbook or materials are required from the students. Each class will begin with a lecture where all necessary information will be provided. Slides used in the lecture will be posted online for students to access. Students will use computers in the classroom that are already set up for Java programming.

Class Outline: Each class will begin with approximately 40 minutes of lecture followed by 80 minutes of programming. The lecture will cover the concepts that students are expected to learn, while the programming component of the class will allow students to gain concrete programming experience by completing exercises with an instructor present.

The following is a tentative schedule.

Date	Topics
March 19	Overview of Java program structure, variables, data types, operators, packages. Writing your first program.
March 26	If-else statements, switch statement, for loops, while and do-while loops, arrays
April 2	Objects, attributes, methods
April 16	File input and output
April 30	Inheritance

Email Policy: When class begins, I will provide an email address where I can be contacted. I am reachable by email and I will respond as soon as I can. However, I typically check my email twice per day, once in the morning and once in the evening, so please keep this in mind if the topic of your email is time sensitive for some reason.

If you miss class, please do not email me asking to learn what you missed; I will typically not respond to such emails. I expect students to attend all classes; however, if you must miss class, then I recommend that you obtain the slides from online and/or speak with your fellow students to understand better what was covered in the missed lecture.

Cell Phones: Please keep your phones set to silent when class is in session. If you need to make/take a call, please leave the classroom to do so.

Class Attendance: Students are expected to attend all classes and participate in discussions.