

Computer Programming I

Instructor: Mr. Henderson

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Classroom: Room B202

Before School: Room P105

After School: Room P105

Course Description

This course is a one trimester course in which the programming language JAVA is introduced and taught. Students will learn programming logic, improve their computer literacy, and become comfortable using a computer for programming purposes. This course includes both lecture and hands-on computer lab time.

Course Understandings

Students will be able to use the object-oriented programming language JAVA to write programming code and data structures. Students will use their knowledge to solve a variety of problems that include variables, input/output statements, if statements, loops, objects, classes, and graphical user interface.

Lesson 1: Output, structure, and comments

Lesson 2: Variables and Variable Types

Lesson 3: String Operations and formatting

Lesson 4: Numerical Variables & Math

Lesson 5: Data Types and Casting

Lesson 6: Methods of the Math Class

Lesson 7: Getting User Input

Lesson 8: Boolean Operators and Logic

Lesson 9: If-Statements

Lesson 10: Switch Statements

Lesson 11: For-Loop

Lesson 12: While-Loop

Lesson 15: Intro to Objects and Class Design

Lesson 13: Basic GUI - Graphical User Interfacing

Materials Needed: Folder, Paper, Pen/Pencil

Grading

Your grade will be determined by earning points on programming assignments, quizzes, and exams.

Please note: many quizzes and exams are pencil/paper exams (no computers allowed).

Planning for Success

Many assignments will be done in the computer lab during class so attendance is very important for success. If you are absent or need extra time to work there are computers available in the IMC and in room P105 (Mr. Henderson's room) with NetBeans installed. NetBeans can also be downloaded for free online if students wish to install it on their own device.

Grading Scale

Students will be graded according to the following grading scale:

A	93-100%	B	83-86.99%	C	73-76.99%	D	63-66.99%
A-	90-92.99%	B-	80-82.99%	C-	70-72.99%	D-	60-62.99%
B+	87-89.99%	C+	77-79.99%	D+	67-69.99%	F	59.99% and below

Note: Some assignments may be graded on a "leveled" scale (complete X for a grade of C, complete Y for a grade of B, complete Z for a grade of A, etc.)

I have read and understand the course syllabus for Computer Programming I.

Student Name (printed): _____

Student Name (signature): _____

Parent Signature: _____