

Computer Math

Mrs. Dufour

Welcome to Computer Math:

Computer Math is an introduction to computer programming class, using the Java language. Although there will be some instruction most days, much of your class time will be spent actually designing and writing code. Through instruction and practice, you will be learning the Java language as well as programming logic and problem solving techniques.

You can expect me to:

- Reinforce classroom and school expectations
- Treat you fairly and with respect
- Provide help when you need it

I expect you to:

- Be respectful
- Be responsible
- Be prepared

Supplies

You will need to bring a pencil and binder to each class. The binder must contain at least your notes and reference documents for the current unit.

You must also supply a USB drive to store the software and your files. Using a USB enables you to work on any school computer (during titan time and when our lab is unavailable.) The software is free and can be installed on your home computer or you can use the USB at home as well. Be sure to regularly back up your files!

2017-18 Year at a Glance:

First quarter:

- IDE and the Robot world
- object oriented programming concepts
- Java syntax
- programming logic (loops, conditionals)

Second Quarter:

- parallel processing
- data types
- arrays
- basic input/output
- calculations in Java
- String class

Third Quarter:

- graphics
- animation

Fourth Quarter:

- GUIs
- enrichment topics

Extra Help:

The lab, L612, will be open at 8 a.m. on Mondays and Fridays. If you need additional help at another time, you must contact me at least one day in advance.

Opportunities:

The computer club meetings are TBD. The club activities are student driven and may include access to 3D printers, building and programming Arduinos, programming contests, etc. Please join us!

Mrs. Dufour's email: sdufour@lcps.org
VISION course: HS-DHS-Dufour-Computer Math
VISION Enrollment Key: CM

Grading:

A point system is used to determine your grade. It is based upon tests/quizzes (about 50%) and programming projects/written homework (about 50%). You are expected to complete all assessments and assignments, including code design, independently unless specifically assigned to a group. You will be expected to uphold the DHS Honor Code at all times.

Student and Parent Resources

We will be using VISION this year. Please access VISION at loudounvision.net. The course name is HS-DHS-Dufour-Computer Math and your enrollment key is CM. Parents may access VISION as guests. The guest password is CMGuest.

Cell Phone Use

The use of cell phones, iPods, and other electronics is permitted in the classroom at my discretion. Electronic devices seen in the classroom will be confiscated if they are being used at a time not specified by me. **Confiscated electronics will be given to the administration and returned to the student only after they have successfully completed a clinic with me regarding appropriate technology usage. Electronics clinics will be held on Tuesday afternoons at 4:10 in L612.** Students seen using a device during a test, quiz, or other graded assessment will receive a zero and any other consequences indicated by the integrity policy.

Recovering from an Absence

Every day in school is important. That being said, I know you may occasionally miss class due to illness or other unforeseen events. I will help you to recover from your absence after you meet the following expectations

1. Before returning to class, access VISION and print out (or copy) the notes that were given during class.
2. Before returning to class, read the notes. If there is a non-programming assignment, please attempt it.
3. The programming assignments from that day may be done at home if you are set up to do so. If not, you will need to make arrangements to access L612 before school.
4. Please make arrangements with Mrs. Dufour for the due dates of any missed **assessments**, expecting to get one class day for each day of missed instruction. Lab assignment due dates may be adjusted on an as needed basis.

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