COURSE EXPECTATIONS: Introduction to Programming I

*Instructor:* Mrs. Knecht (sknecht@sch.ci.lexington.ma.us) office: 713, classrooms: 819 and 329

*Textbook:* none

*Course prerequisite:* None. The course curriculum is based on the assumption that programming is new for the students. No prior experience is needed.

*General Goals and Objectives:* This is an introductory course in computer programming in the language C++. The course will emphasize the analysis of problems, the careful selection of an appropriate algorithm, and the implementation of the algorithm in C++.

Course Content: This course will include the topics listed below:

* Design and implement solutions to problems by writing, running, and debugging computer programs.
* Use and implement the following:

1. Input/Output and variables
2. Mathematical expressions and functions
3. Conditional statements (if-else/switch case)
4. Loops (for, while, do\_while)
5. Functions
6. One-dimensional Arrays

Student Responsibilities:

Take care of each other. If you get stuck, please help each other. Try to troubleshoot your problems together with classmates first before calling me or the TA (if your class is lucky enough to have one!) for help. The ability to isolate, identify, and fix a problem is one of the valuable skills this course allows you to practice.

Be honest. Students are expected at all times to abide by the Lexington High School Honor Code. Please review the code, which may be found online in the Student / Parent Handbook.

The policy of this class is that you are encouraged to talk to your classmates, but as soon as you start to type your code, you should work by yourself.

Copying text directly from someone else is cheating. It doesn’t matter if the “someone else” is a classmate, a parent, or a website. Furthermore, modifying code that you did not write in order to make it look like your own is also not allowed.

Cell Phones are not allowed. Use the computer.

Show up for class. Absences will be handled in accordance with the Lexington High School Attendance Policy.

Evaluating Student Achievement:

Grading will be weighted in the following way:

* Completion of required programming activities: 70% (see rubrics).
* Mini-Quizzes: 20% A student scoring below a 85% on any quiz has the option to re-quiz on the day that the re-quiz is scheduled. The new grade will replace the original grade.
* Quarter Test: 10%. No retakes are available for the Quarter Tests.