

Tyngsborough High School

Course Syllabus

Computer Programming

Instructor Information

Instructor: D. Messina

Room: 210

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Class Website: <http://wp.me/P2SaVX-2>

Course Description/Overview

This course is designed to be a “gentle introduction” to the fundamentals of computer programming, which is the foundation of Computer Science. Students will design, write and debug computer programs. No knowledge of programming is assumed

You will be learning how to program using a system called Alice. Alice makes it possible to write computer programs in a totally different way than ever before. Rather than typing obscure “computer language” into a machine in the hopes of getting it to do some sort of strange calculation, you'll will be using objects to follow your scripts.

Course Learning Objectives

1. Students should be able to use object-oriented design to develop and implement computer-based solutions to problems.
2. Students should be able to apply the steps necessary for software development with classes including using and extending existing classes
3. Students should use and master the essential features of Alice including control (sequential, selection, repetition) parameter passing, and strings.
4. Students will be able to create an interactive video game utilizing programming skills.

Course Text

Learning To Program With Alice

All reading will be done in class as you will need to use the Alice program as you read.

Supplies Needed

USB Flash Drive – Always good to have one for backup

Grading Policy

Grades will be based on the following:

Class Work	50%
Projects	35%
Final	15%

Late Assignments

Late Projects will be penalized by 5 points per day late

Course Policies

No food or drink allowed in the computer lab at any time

Cell phones, Blackberries, iPods, PDAs, or any other electronic devices are not to be used in the classroom. Use of any electronics in the class will result in the device being confiscated until the end of class. Repetitive offenses will be dealt with as needed.

No Social Network internet sites are to be accessed during class time.

Be on time for class