

This course serves as an introductory course in computer programming using Scratch & Visual Basic Express 2010 that should prepare students to take further programming courses in high school, university, or community college and to make an informed career choice in this area. Students will also be introduced to the MVHS MakerSpace, which will have a variety of technologies that can be used to develop their final projects. Students will learn to create simple Windows programs.

Topics to Be Covered

Careers in Computer Science
 Programming Languages
 Block Programming
 Scratch
 Sprites
 Collisions
 Animations
 Vector Graphics
 Sound
 Application Software
 Documentation
 Visual Basic Interface

Flow Chart
 Variables
 Data Types
 Conditional Statements
 Writing Expressions
 Debugging
 Looping
 IF Statements
 CASE Structures
 Arrays
 Multiple Forms
 Animated Objects
 Sound

EVALUATION

Quizzes
 Assignments
 Tech Points
 Minor Projects
 Final Project

Final Mark

Quizzes/Assignments/Minor Project/Tech Points.....70%
 Final Project.....30%