

Course Overview

Business and Finance Technology

COMPUTER PROGRAMMING BASIC

Supports Academic Learning Expectation # 3

Students and graduates of Ledyard High School will employ problem-solving skills effectively

Revised – 6/10/08

There are currently no state standards for computer programming

Course Overview

- I. Introduction to QBasic
- II. Primary QBasic Language Elements
- III. Input/Output
- IV. Control Statements
- V. Data Structures: Arrays
- VI. Subroutines and Functions
- VII. Disk File Processing
- VIII. Graphics and Sound

Indicators of Learning

As a result of successfully participating in this course of study, students will be able to:

1. Demonstrate an understanding of programming concepts and basic programming principles
2. Demonstrate the ability to apply programming structures and languages to develop solutions to a wide range of problems
3. Explain the purpose and functions of computer programs and program components
4. Describe and apply the five steps of program development
5. Explain and apply the design concepts and tools used in structured programming
6. Explain, illustrate, and apply the sequence, selection, and iteration control structures used in structured programming
7. Use internal and external program documentation
8. Explain and apply the process of logical organizational data
9. Design, write, test, and troubleshoot a program
10. Explain and correctly apply the order of operation in computation
11. Explain and apply testing procedures including appropriate data testing processes to check all logic structures and conditions
12. Incorporate the development tools to support the complete development process and on-going program documentation