

## COURSE SYLLABUS: COMPUTER TWO

### Visual Basic

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Computer Science Department

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Portsmouth High School

#### 1. Required Textbook

*An Introduction to Programming Using Microsoft® Visual Basic ® Versions 5 and 6* by Beth Brown and Bruce Presley published by Lawrenceville Press, 1999.  
Supplemental resources and texts as needed.

The updated version of the same text may be issued if VB.NET is installed in the classroom.

#### 2. Course Description

Computer Two is a full year course designed to offer students who enjoyed Computer One the opportunity to continue to investigate the world of computer programming.

#### 3. Course Purpose

The purpose of Computer Two is to provide all students with the opportunity to develop problem-solving skills. The process of defining a problem, breaking it down into a series of smaller problems, and finally writing a computer program to solve it is an exercise in learning to think logically. In addition, the student is made aware of the capabilities and limitations of the computer. This will assist in increasing a student's academic success and develop a respect for technology as a productivity tool.

#### 4. Course Objectives

The course objectives include increasing:

- Student accountability
- Core computer skills
- A working knowledge of Visual Basic
- Awareness of the role computers play in modern society
- The ethical and social implications of computer use
- Problem solving skills
- Critical analyze data
- Students' ability to access and gather information
- Communicating effectively
- Real-life application of knowledge acquired

#### 5. Learning Climate

The teaching method for this course is experiential and based upon these two key concepts:

- The instructor does not fill up the passive student with knowledge. Learning is interactive; the students are responsible for commitment and investment in the learning process.
- The hands-on exercises and projects require complete involvement by each student. The emphasis of this course is on the concepts of computing and problem solving so that students learn how computers can be utilized to in a wide range of academic and career areas.

## 6. Requirements for the Course

**Attendance:** Since much of the class progress will depend upon student involvement and participation, a pattern of sustained absence will present a problem. The student is required to actively participate in class. Students are responsible for all work missed when they are absent. Students are to meet with the instructor **prior** to attending the class following their absence. The **instructor will not waste class time to re-teach missed lessons**. Please see the instructor in advance if you have a legitimate need to be absent; otherwise full attendance is expected.

**Class Participation:** All students are expected to actively participate in class. This includes actively listening to lectures and participating in classroom discussions. Mere physical presence is unsatisfactory.

**Exercises/Worksheets:** Students will be assigned exercises from the text or will be provided with worksheets from the instructor. These will be completed and submitted, on a daily basis, to the instructor. Absent students' classroom assignments are due the day following their return. ***It is the student's responsibility to obtain missed assignments.***

**Projects:** Each student will complete projects relevant to the topic being presented. Some projects may be assigned to small teams of students for completion.

**Notebooks:** Notebooks containing an indexed account of student work will be required of all students for each quarter and for the full year.

**Tests:** Tests will be given to evaluate the student's knowledge on a particular topic.

**Quizzes:** Quizzes may be announced or unannounced.

## 7. Evaluation

Evaluation will be based upon attendance, participation, written assignments, tests, quizzes, and projects, as outlined in "CLASSROOM PROCEDURES AND GRADING POLICIES."

## 8. Classroom Procedures

Classroom Procedures are found in the document entitled "CLASSROOM PROCEDURES AND GRADING POLICIES."