

**MASCONOMET REGIONAL SCHOOL DISTRICT
COURSE SYLLABUS**

COURSE NAME: Computer Science II **DEPARTMENT:** Business
COURSE NUMBER: 5821/22 **GRADE LEVEL:** 10-12
PHASE: College **YEAR:** 2011-2012

I. **Course Description:**

This course continues the sequential development of Computer Science I. Communication and network models will be explored using the Internet and the World Wide Web, and web page development will continue to be a focus of this course. Programming in Adobe Dreamweaver CS5, Visual Basic 6, Javascript Adobe Flash CS5 will be major components of Computer Science II.

II. **Central Objectives:**

- A. Students will describe the elements of the Internet and world wide web.
- B. Students will ethically use all computer systems and understand which activities are right, wrong, or even criminal.
- C. Students will define and describe learning aids and support tools that help with the use of computer programming software.
- D. Students will demonstrate their ability to graphically program the computer using MS Visual Basic, to create and compile simple as well as complex applications and games.
- E. Students will demonstrate their ability to program the computer using multiple programming languages: Visual Basic, CSS, PHP, Javascript, creating graphic and problem solving applications, and applets for web page development and apps for smartphones.
- F. Students will develop web pages using the Adobe CS5 Suite.
- G. Students will be prepared to meet the challenges presented by future systems, applications, and equipment.
- H. Students will create animations and interactive web pages using Flash.

III. **Major Activities:**

PROJECTS: Students will be required to successfully complete project assignments to demonstrate their ability to master the **Central Objectives**.

PERFORMANCE TESTS: Students will be required to successfully perform timed tasks at their computer which reflect their understanding and mastery of the **Central Objectives**.

QUIZZES: Students will be given announced and unannounced written quizzes, which test their understanding of the **Central Objectives**.

CLASS ASSIGNMENTS: Students will be required to complete assignments outside of the scheduled class period, either at home or in the computer lab.

IV. **General Expectations:** Each student is expected to understand and abide by the responsibilities, behaviors and consequences defined within the Acceptable Use Policy for access provided by Masconomet.

V. **Student Evaluation:**

- A. Performance examinations for each unit.
- B. Midterm and Final Examination.
- C. Project Evaluation.

VI. **Text and Materials:**

Various Handouts.
Online Tutorials
Textbooks

VII. **Scope and Sequence:**

Adobe CS5 (Dreamweaver, Flash, Photoshop, Fireworks)
HTML, CSS, PHP
Javascript
Visual Basic