

Pellissippi State Community College
Master Syllabus

VISUAL BASIC PROGRAMMING
CSIT 2610

Class Hours: 3 Hours/Week
Laboratory Hours: 3 Hours/Week
Credit Hours: 4.0
Revised: December 6, 2010

Instructor:
Office:
Phone:
Email:

Catalog Course Description:

A study of Windows graphic interface development through the learning and hands-on application of Visual BASIC programming language. The learner will develop, design, code and test graphic sessions, images, windows, mouse selections, data usage and image movements to produce client-based working programs. Emphasis will be on code creation, sound programming practice, window control and graphic design. Development of working client-based products is essential to the completion of this course.

Entry-level Standards:

The student must have sufficient math and computer literacy background to analyze problems logically. The student should have previous programming experience and knowledge of Windows and PC usage.

Pre-requisites: One programming course

Co-requisites: College-level math

Textbook(s) and Other Materials Basic to the Course:

Text: Programming With Microsoft Visual BASIC 2008, 4th Edition, Diane Zack, Course Technology. ISBN: 978-0-342-78276-9

I. WEEK/UNIT/TOPIC BASIS:

Week	Chapter(s)	Topic(s)
1	1,2	An Introduction to Visual Basic 2008
2	3	Using Variables and Constants
3	4	The Selection Structure
4	5	More on the Selection Structure
5	6	The Repetition Structure
6	7	Sub and Function Procedures
7	8	String Manipulation
8	9	Arrays

Week	Chapter(s)	Topic(s)
9	10	Structures and Sequential Access Files
10	11	Classes and Objects
11	12	Web Applications
12	13	Working with Access Databases
13	13	LINQ
14		Student Presentations

II. COURSE GOALS *:

The Course will:

- A. Use applications software, operating systems and/or system-based products. II,IV
- B. Effectively use computer language, to produce code and output that meet specified requirements. II,III,IV,V
- C. Use equipment and resources that are up-to-date and real-world and that represent current trends in the employment field. II
- D. Upgrade and develop skills that can be measured by real-world training standards as established by national tests, state standards, institutional goals, and employers I,II,III
- E. Develop students' ability to express ideas and facts in written and verbal communications and work independently or as a team member. I, II, III

* Roman numerals after course objectives reference goals of the CSIT program (Career Program Goals and General Education Goals are listed

http://www.pstcc.edu/departments/curriculum_and_instruction/syllabi/)

III. EXPECTED STUDENT LEARNING OUTCOME *:

The student will be able to:

1. Use Visual BASIC tools to create a well-documented application based on client input or industry research. (A,B,C)
2. Demonstrate a working knowledge of the Visual Basic program language terms(A,B,C)
3. Learn to analyze and solve problems using structured and analytical techniques.(A,B,C,)
4. Use professional tools to produce software components and documentation.(C)
5. Create fully functioning window driven client-based problem solving programs complete with documentation per instructor specifications (A,B,C,D)
6. Plan the logic for complete business programs. (A,B,C,D)
7. Demonstrate the ability to work alone, communicate well and work within a group as assigned (C,D,E)

* Capital letters after Expected Student Learning Outcomes reference the course goals listed above

IV. **EVALUATION:**

A. Testing Procedures: At least 50% of grade

A minimum of three major tests is recommended. Tests will cover material presented in class. Tests are not to be missed without a valid excuse.

B. Laboratory Expectations: Maximum 40% of grade

Lab attendance is required. Assignments will be given and must be completed and handed in at the designated date. The student is expected to turn in all required documentation for each lab. Students will automatically receive grade of F if no lab assignment is submitted.

C. Field Work: N/A

D. Other Evaluation Methods: Student Presentation: 10% of grade.

Students will work as a team on their last project. There will be a team effort presentation. Presentations will normally cover materials that are discussed through the semester.

E. Grading Scale:

93 – 100	A
88 – 92	B+
83 – 87	B
78 – 82	C+
73 – 77	C
65 – 72	D
Below 65	F

V. **POLICIES:**

A. Attendance Policy:

Pellissippi State Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. (*Pellissippi State Online Catalog*)

B. Academic Dishonesty:

Plagiarism, cheating and other forms of academic dishonesty are prohibited. A student guilty of academic misconduct, either directly or indirectly through participation or assistance, is immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions that may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (*Pellissippi State Online Catalog*)

C. Computer Usage Guidelines:

College-owned or –operated computing resources are provided for use by students of Pellissippi State. All students are responsible for the usage of Pellissippi State's computing resources in an effective, efficient, ethical and lawful manner. (*Pellissippi State Online Catalog*)

D. Accommodation for Disabilities:

Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins127,132,134,135,131 or by phone: 539-7153(Voice/TTY 694-6429) . More information is available at www.pstcc.edu/departments/swd/

E. Other Policies:

Students are expected to promptly attend all lecture and lab classes as assigned. If a class is missed, student must make up all work and get notes and/or handouts.