

# Northeastern Technical College

## Visual Basic Programming

INSTRUCTOR: Polly McLain  
COURSE TITLE: Visual Basic Programming I  
COURSE PREFIX AND NO: CPT 212  
CREDIT HOURS: 3.0  
PHONE: 921-1452 or 1-(800)-921-7399 Extension 1452  
OFFICE: Room 535 Harris Hall  
E-MAIL: pmclain@netc.edu

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**PREQUISITES:** CPT 114 with grade of “C” or better.

**COURSE DESCRIPTION:**

This course focuses on Windows programming using Visual Basic to create graphical user interfaces. The course examines forms, controls, graphical controls, loops, control arrays, database and traditional file processing, and application class scheduling

Upon successful completion of this course, the student should be competent to perform the following: Plan and Design, Create, Debug, Test and Execute running Visual Basic applications.

**TEXTBOOK(S):**

Microsoft Visual Basic 2005 Basics, Knowlton, Thompson, Hunt, and Collings, Course Technology, Inc., 2007

**GRADING:**

**Part 1: Textbook and Lecture:**

There will be tests given on material covered in lecture and from the textbook. These tests will be primarily objective with some short problems depending on the materials being covered.



**Part 2: Programming Assignments:**

In order to fully comprehend the topics covered in classroom lectures, the student will be assigned a number of projects to use the techniques acquired in class.

The student will be given lab assignments and projects during the semester as the concepts are presented in lecture or in the lab. The final grade will be determined by the following grading scale and percentage weight system:

**GRADING SCALE:**

A -----	100-93	<b>Final Grade</b>
B -----	92-85	
C -----	84-78	Projects ----- 50%
D -----	77-70	Test ----- 50%
F -----	69 and below	

There will be no retests or makeup tests given. A grade of “F” will be recorded for any test missed. If a problem arises, a test may be taken early at an earlier agreed upon time.

All projects will be given a due date. TEN (10) points will be subtracted from the grade for late projects.

*No project will be accepted more than 1 week later than assigned.* A grade of “F” will be assigned the work if the time schedule is not met.

**ATTENDANCE:**

- The student will be dropped after their:
  - 9th** absence for *Monday/Wednesday/Friday* DAY students;
  - 6th** absence for *Tuesday/Thursday* DAY students;
  - and **3rd** absence for *Evening* students.

NOTE: Summer students may miss no more than 2 absences at night or 8 during the day. .

The Student will be marked as Tardy when arriving after the class roll has been called. Three (3) tardies will constitute one absence.

In the event that the student misses more than the allowable absences, the Instructor, who will complete a Withdrawal form, with a grade of “F”, will drop the Student. IF the Student wishes to withdraw from the class, the STUDENT must complete a Withdrawal form which can be found in the Student Development Office of the College. The Student will receive a grade of “W” if the work completed to date is acceptable; a grade of “WF” will be assigned if the work is unacceptable.

NOTE: If the student misses a class, it is his/her responsibility to obtain the materials from another student. **The Instructor is not responsible for updating the student on missed work**



### **CLASS POLICY:**

During either a test or lab project, anyone caught exchanging information or copying someone else's work will receive a grade of "F" for the project or test and the Dean of Students will be notified of the act. (See College Catalog).

There is to be no food or beverages in the computer lab at any time.

All lab diskettes are to be turned in to the Instructor before the student leaves the classroom. NO diskettes are to be taken from the classroom and NO diskettes are to be brought into the classroom from other areas.

No radio or headphones are allowed in the classrooms.

Electronic communication devices (pagers, cell phones, etc) are not allowed in the classroom. On call emergency personnel should see the instructor for an exemption. (See College Catalog)

Students are required to prominently display a valid NETC photo ID at all times.

Computer User Responsibilities. (See College Catalog).

- Software - protected by copyright and licensed for use by NETC only. Software may not be removed, transferred, copied or modified.
- Hardware - Computers are available for use only during scheduled or assigned hours. Student users have priority. Users may not abuse or alter any computer capabilities or settings.
- Web Access - NETC provides access to the Internet for educational and research purposes. The College prohibits use of computer facilities for hacking accounts at NETC or any other location, games, chatting, personal e-mailing, downloading programs, changing settings, browsing offensive sites or transmitting illegal, unlawful or immoral information. NETC computers may not be used for personal gain or profit. Access to personal e-mail accounts without specific permission is prohibited due to e-mail delivery of viruses.

*NOTE - The NETC Computer Center monitors computer use with capabilities to track violations of computer user responsibilities. The College will impose disciplinary action for violations*

### **WRITTEN ASSIGNMENTS:**

The Instructor reserves the right to refuse any paper, which is messy or unreadable or appears to be copied. Incorrect grammar and spelling errors will be noted. Papers will be graded on the basis of content, organization, grammar, spelling, and neatness. Papers containing any plagiarized material will result in a grade of "F" on the paper.

### **DISABILITIES STATEMENT**

Students with disabilities are encouraged to contact the Vice-President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice-President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog).



## TENTATIVE CLASS TOPICS

Introduction to Microsoft Visual Basic Forms, Controls, and Properties Events and Code  
Mathematical Operators Data Types and Variables Exponentiation, and Error Handling Strings and  
Decimal Types  
If Statements Nested If Statements and Radio Buttons  
Do Loops List Boxes, For Next Loops, and Label Settings Arrays  
Multiple Forms Menus and Printing  
Lines and Shapes Web Functionality and Form Appearance  
Final Exam

## COMPETENCIES

Upon successful completion of this course, the student should be competent to perform the following:

### **Course Competencies:**

COURSE COMPETENCY	METHOD OF ASSESSING SKILL
Identify the steps of program development	Projects/Test
Design, code, test, debug and document elementary structured programs in a modern high-level structured language that require conditional processing and looping	Projects/Test

### **College-Wide Competency:**

NET C COMPETENCY	METHOD OF ASSESSING SKILL
The Student will be able to identify and use sources of information by utilizing information processing skills compatible with job demands in a computer-literate society	Tests and Projects

### **Learning Outcomes for the course:**

Graduates will develop programming solutions.

