

July 2003

Course Information

Course Prefix/Number: **CPT 213**
Course Title: **Advanced Visual Basic Programming**
Lecture Hrs/Week: **3.0**
Lab Hrs/Wk: **0.0**
Credit Hrs/Semester: **3.0**

[DL Attendance/VA Statement](#)
[Textbook Information](#)

Course Description:

The course is a study of the object-oriented features of visual basic and their use in accessing databases. It includes classes, collection and web access.

Course Competencies:

Module 1 – Basics

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

Demonstrate the ability to describe the various file access methods in VB.

Demonstrate the ability to design, code, and test a complete, correct, and documented program using input and output files.

Demonstrate the ability to describe the various storage classes available in the VB language.

Design, code, and test a complete, correct, and documented program using variables and structures of storage classes appropriate for the given application.

Module 2 – Stacks & Queues

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

Describe the operation of stack and queue data structures.

Design, code, and test complete, correct, and documented programs using stacks and/or queues, as appropriate for the given application.

Describe the operations of linked-list and tree data structures.

Identify, compare, and contrast commonly used methods for data sorting and searching.

Design, code, and test a complete, correct, and documented program using an implementation of an appropriate search and/or sort method.

Module 3 – Advanced Topics

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

Design, code, and test a complete, correct, and documented program using the bitwise operators of the VB language.

Design, code, and test a complete, correct, and documented program providing a web interface with a database.

Course Requirements

All students are responsible for attaining competencies through completion of the following course requirements:

- Attending class
- Reading assigned material
- Completing assigned exercises and programs
- Completing all tests

Attendance Policy

The attendance policy as stated in the York Technical College Handbook will be enforced. Attendance is required on test days. No makeup tests will be given. If a student misses a test, the student may take the optional final to replace the zero from the missed test.

Academic Honesty

The policies stated in the York Technical College Handbook will be enforced. Any student violating the policy will be subject to academic discipline. Anyone caught cheating will automatically get an "F" for the assignment.

Evaluation Strategies/Grading

This course is divided into three modules. Modules must be completed in order. Students may exempt any of the three modules by completing both the theory tests and programs with a score of at least 80% on each. Below is a list of the modules:

Module 1	Percentage
Tests (minimum of one)	15%
Programming Assignments (minimum of one)	15%
Module 1 Grade	30% of final grade
Module 2	
Tests (minimum of two)	20%
Programming Assignments (minimum of two)	20%
Module 2 Grade	40% of final grade
Module 3	
Tests (minimum of two)	15%
Programming Assignments (minimum of two)	15%
Module 3 Grade	30% of final grade
Course Grade	100%

Grading Scale

Score:	Grade:
90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
<60	F

METHOD OF INSTRUCTION

The instructor will discuss the principles introduced in each chapter and demonstrate the methods described there. The student will reinforce this lecture material by reading the textbook and completing the exercises as assigned. During this course the student will be given opportunities to practice on a microcomputer the skills being learned. The student should expect to spend time outside the class period as well as time given during class to complete this work. Student will have an opportunity to review solutions in class. Should a student need additional assistance, a tutor will be available, as will instructors during their posted office hours.

ENTRY LEVEL SKILLS

PREREQUISITES:

CPT 212 with a minimum grade of "C."

COREQUISITES:

None

COURSE MATERIALS

Two floppy disks and one folder.

Students should have a valid student i.d.
Check lab doors for operating hours.