

George Brown
The Toronto City College

COURSE OUTLINE

**Centre for Continuous Learning
Technology Division**

COURSE NAME: Visual Basic .NET
COURSE CODE: COMP 9371
CREDIT HOURS: 60
PREREQUISITES: COMP 9336 (Intro to Programming Logic)
COREQUISITES: NONE
EFFECTIVE DATE: January 2005
TEACHER: Brian Bath
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PLAR ELIGIBLE: YES () NO ()

NOTE TO STUDENTS: Academic Departments at George Brown College will NOT retain historical copies of Course Outlines. We urge you to retain this Course Outline for your future reference.

FOR OFFICE USE ONLY		
ORIGINATOR: _____	_____	_____
	SIGNATURE	DATE
CHAIR: _____	_____	_____
	SIGNATURE	DATE
DATE OF REVISION: _____		

EQUITY STATEMENT

George Brown College values the talents and contributions of its students, staff and community partners and seeks to create a welcoming environment where equity, diversity and safety of all groups are fundamental. Language or activities that are inconsistent with this philosophy violate the College policy on the Prevention of Discrimination and Harassment and will not be tolerated. The commitment and co-operation of all students and staff are required to maintain this environment. Information and assistance are available through the Continuing Education Co-ordinator or Chair for the subject area of this course.

STUDENT RESPONSIBILITIES

Students should refer to the Continuing Education Course Guide for information on the grading system, withdrawals, exemptions, class assignments, missed tests and exams, supplemental privileges and academic dishonesty. Students are required to apply themselves diligently to the course of study and to prepare class and homework assignments as given. Regular attendance, though not a requirement, is strongly advised. Past student performance shows a strong relationship between regular attendance and success.

COURSE DESCRIPTION:

This course introduces essential concepts and techniques used in Visual Basic programming. We begin by learning how to use the .NET IDE development environment and continue to introduce MDI Applications and the use of User Defined Types. The course includes learning to read and write to and from text files and databases. The use of object orientation and event-driven programming techniques are essential concepts in VB .NET and many other 4th generation languages. When understood, these techniques will enable you to easily learn other languages. Other course material includes: routine but essential data validation, acceptable interface design principles, basic application architecture and design, and meeting appropriate documentation standards and programming conventions.

COURSE OUTCOMES:

1. Learn the fundamentals of computer programming using Visual Basic .NET.
2. Learn routine data validation techniques.
3. Incorporate intrinsic, database, common controls and objects in an application.
4. Build applications that interact with databases
5. Build SDI and MDI applications.
6. Build applications that read and write to files.
7. Understand structured error handling and debugging techniques.
8. Understand and practice acceptable design methodologies incorporating common conventions.

DELIVERY METHODS:

This course will demonstrate concepts through lectures and demonstrations delivered by the teacher. These concepts are then backed up with practical hands-on lab exercises and assignments.

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

1. Programming With Microsoft Visual Basic.NET – An Object Oriented Approach; Michael Ekedahl & William Newman,; Course Technology; ISBN: 0-619-01658-4

TESTING POLICY:

1. A score of zero may be recorded for a missed assignment or examination unless the student presents the teacher with official substantiation of the absence the first day she/he returns to class. Due notice is provided for quizzes and exams. **Attendance is not optional.** Electronically distributed tests may only be written at the appointed time.
2. To register a pass in this course, the student must achieve a final mark of 50 percent on both the theory portion and the practical portion of the course.
3. In order to be credited for assignments the student **MUST** average **AT LEAST 50%** on both **EXAMS**, otherwise the student's test marks will become the course mark.
4. The student is solely responsible for keeping back-up copies of each assignment or electronically submitted test.
5. Students are responsible for reading the appropriate course material prior to the lecture.

ASSIGNMENT POLICY:

1. All assignments are due promptly as indicated in the assignment paper. Assignments submitted past that time will be marked as late. A late penalty of 10% will be deducted from assignments for each class the assignment is late.
2. All assignments and projects submitted must adhere to the documentation standards and programming requirements of the instructor.
3. The student is responsible for keeping at least one back up copy of each assignment submitted that has not been altered since the initial submission.

EVALUATION SYSTEM:

Assignments	30%
Quizzes	10%
Class Participation	10%
Midterm Examination	25%
Final Examination	25%

GRADING SYSTEM

GEORGE BROWN COLLEGE				
A+/A 86-100	B+ 77-79	C+ 67-69	D+ 57-59	Below 50 F
A- 80-85	B 73-76	C 63-66	D 50-56	
	B- 70-72	C- 60-62		

Excerpt from the College Policy on Academic Dishonesty:

The *minimal* consequence for submitting a plagiarized, purchased, contracted, or in any manner inappropriately negotiated or falsified assignment, test, essay, project, or any evaluated material will be a grade of zero on that material.

TOPICAL OUTLINE:

Topical Outcome	Content	Chapter/ Reference
1, 8	Introduction The MDE Environment – Creating a Solution – Performing Assignments – Using Library Functions – Designing the Interface – Manipulating Design & Runtime Properties	Chapters 1, 2
1, 3, 5, 8	Using Variables Intro To Data Types –Documentation & Design Standards – Operators & Precedence – The Object Browser	Chapter 3
1, 3, 8	Decision Making Using Constants – New Controls – Logical Operators – Data Conversion – Booleans -	Chapter 4
1, 2, 3, 8	Data Validation Using String Data – Scope – Writing General Procedures – MessageBox – Call By Reference & Value	Chapter 5
1, 3	Iterative Control Structures The Timer – Object Declaration	Chapter 6 (p. 212 – 222, 235-6
1, 6	Reading and Writing Files Using Arrays & Lists – Using Structs – Constructors – Combo & List Boxes	Chapter 7
3, 4	Databases using ADO.NET Creating Menus –DataBinding – The DataSet – ADO Objects – Common DB Operations	Chapter 8
3, 6, 7	Windows Dialog Controls The APP Class – Error Handling – Rich Text Processing & Control	Chapter10
3, 4, 5	The MDI Application Windows Common Controls – The Toolbar – Status Bar – Image List – Global Procedures	Chapter 11