

Montgomery County Community College
 CIS 122
 Visual Basic
 3-2-2

COURSE DESCRIPTION:

This is a comprehensive course in using Visual BASIC to implement Windows programming concepts. These include usage of Window's controls, icons, bit maps, DLLs, VBXs, OLE, DDE, and memory allocation. The course teaches the considerations of custom installation, structured programming, problem solving, the uses of Visual BASIC as a system prototyping tool, and the uses of Visual BASIC for live systems development.

REQUISITES:*Previous Course Requirements*

- CIS 111 Computer Science I: Programming and Concepts

Concurrent Course Requirements

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Demonstrate proficiency in programming with Visual Basic.	Lecture Group Projects	Exams
2. Demonstrate proficiency in programming with Windows.	Hands-On Lab Exercises Discussion	Quizzes Live Computer Lab Demonstration
3. Discuss the components of Windows implementation.	Lecture Homework Assignments	Competency Checklist
4. Discuss key elements of custom installations.	Group Projects	Competency Checklist
5. Graphic implementation of Forms and Reports.	Discussion Homework Assignments	Quizzes Live Computer Lab Demonstration
6. Discuss the value of C/C++ programming in the performance of Visual Basic.	Discussion Lecture	Competency Checklist Quizzes
7. Utilize problem-solving skills to solve programming needs.	Homework Assignments	Exams

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The

benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

1. Course Overview; the State of Programming; Quality Systems
2. Introduction to MS Windows and VB
3. Components and Layout of VB Systems
4. The VB Language Basics; Storage; Program Control
5. Basic Controls; Prompts; Buttons, and Inputs
6. Basic Controls (continued); Menus and Selections
7. Working with Multiple Forms
8. Working with Files
9. More on VB Controls; Combining Controls
10. More on VB Language
11. C and VB
12. Presentations

LEARNING MATERIALS:

TEXTBOOK: Gaddis, Irvine. **Starting Out With Visual Basic 2010**

Seventh Edition - Addison-Wesley – Copyright 2017 ISBN: 9780134522180

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by: Marie Hartlein

Date: 1/1995

Revised by: Larry Elias

Date: 7/10/2013

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez, Ed.D.

Date: 7/11/2013

Revised by: Pat Rahmlow and Debbie Dalrymple

Date: 1/11/2018

VPAA/Provost or designee Compliance Verification:

Date: 1/30/2018



This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.