MONTGOMERY COLLEGE
Rockville Campus
Engineering, Physical and Computer Sciences Department
CMSC222 Visual Programming

Instructor Information

Name: Office Location:
Mailbox: Office Phone:
Email:
Office Hours:

Course Information

Semester: Course CRN:
Class starts: Class ends:

Class Meetings: Classroom:
Midterm Exam: Final Exam:

Check MyMC class schedule for your Specific   Check MyMC class schedule for your
Deadline to Drop without a grade W or to change   Specific Refund Deadlines
from audit to credit or from credit to audit

Course Description

Concerns with writing programs for the Windows programming environment, including developing an application, tools, forms, the user interface, programming, built-in functions, procedures, arrays, records, testing, and debugging. Emphasis is on rapid development of useful applications.
PREREQUISITE(S): *A grade of C or better in* CMSC140 *or consent of department. Three hours each week. Formerly CS 215.*

3 semester hours
Course Outcomes

#	Upon completion of the course, the student will be able to:
1.	Describe the concepts of event-driven programming.
2.	Design, develop, modify, test, debug, and run Visual applications.
3.	Develop windows applications utilizing Visual tools such as forms, labels, buttons, text boxes, dialog boxes, menus, file management, and error handling.
4.	Explain and/or apply the fundamental components and programming features of Visual programming, including declaration of variables, boolean expressions in if/else blocks, loops, arrays, functions, and procedures.

Course Materials

Textbook: Visual Basic 2015 Unleashed, Alessandro Del Sole
This text is available free in the MC Library Online Collection.

Grade Basis

Midterm Exam	20%
Final Exam	20%
Quizzes on Reading Assignments (10)	10%
Projects (8)	40%
Discussion (12)	10%
Total:	**100%**

Grading Scale:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
Below 60%	F

General Class Policies

- ❖ You are responsible for all work missed, and for meeting assignment due dates when absent. Please call or email your instructor if you are going to be late or absent.
- ❖ You are strongly encouraged to contact your instructor at home by phone or e-mail if you are having difficulties, or have any questions about assignments.
- ❖ Please include your name and the course information in the submitted assignments.
- ❖ Incomplete assignments receive no more than 50% of the grade.
- ❖ Assignments are considered incomplete, if they do not compile, they do not contain reasonable comments.
- ❖ There is always a means to submit your assignments on time. Be creative, be persistent, and keep your instructor informed!
- ❖ All assignments (Tests, Quizzes, Assignments, and Projects) must be turned in on or before the due dates to receive full credits.
- ❖ Missed Tests, Quizzes, Assignments, and Projects: NO MAKEUPS without a doctor's excuse. If the Final Exam is not taken, the student will receive a grade of F for the course.

Course Topics

Topics
1 An introduction to Visual Programming with Visual Basic
2 Visual Basic, Controls, Events, and Code
3 Functions, Variables, and Calculations
4 Boolean Expressions: If/ Else and Select/Case
5 General procedures, Drawing
Midterm Exam
6 Dialogs and Menus
7 Loops and Arrays
8 Strings, Date and Time
9 Files and Error Catching
10 Forms
11 Databases
12 Object-Oriented Programming
Final Exam