

ROCK VALLEY COLLEGE
BUSINESS/COMPUTERS AND INFORMATION SYSTEMS DIVISION

Spring 2016

Instructor : Chuck Konkol

Title: Associate Professor

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Office Hours:

M | 6:15-7:30 T | 3:30p-4:30p/6:00p-7:00p, Th | 3:15p - 4:15p/6:00p-7:00p

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CIS 180 – **Introduction to Programming Using Visual Basic** PCS: 1.2

IAI: None

Course Description:



This is an introductory course designed for students and professionals with little or no Visual Basic or Windows programming experience. The student will learn the BASIC language syntax, event-driven programming, and logic structures used in programming. Topics such as Windows programming standards and conventions, database programming, array processing, controls, properties, methods and events will be discussed.





PREREQUISITE: PCT 101 or CIS 102 or equivalent computer experience.

Credits: 4 semester hours

Lecture: 3

Lab: 0

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| |  Communicate effectively. |
| |  Integrate technology into all fields of knowledge and expression. |

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|---|---|---|
| X |  | Demonstrate competency in critical thinking. |
| |  | Respect and work effectively with persons of diverse backgrounds and abilities. |
| |  | Demonstrate the behaviors of ethical and socially responsible citizens. |
| |  | Demonstrate personal wellness |

GENERAL EDUCATION LEARNING OUTCOMES

This course addresses the following general education learning outcome(s):

Course Objectives: (By the end of the semester, students should be able to:)

1. List the steps for program development of a Visual Basic application.
2. Create and interpret commonly used design tools such as flowcharts, pseudocode or structure charts.
3. Design and create a graphical user interface to be used with Visual Basic.
4. Create and manipulate string and numeric variables and constants.
5. Use arithmetic functions and operations within a Visual Basic program.
6. Create, run and test a Visual Basic application program with subprocedures and programmer-created functions that access sequential data files and databases.
7. Include output within an event procedure to messages boxes, printer and controls on a form.
8. Design and code sequence, selection and iteration logic structures in Visual Basic.
9. Manipulate control arrays and one-dimensional arrays.

Prerequisites:

Knowledge of Windows and Windows applications is helpful, but not absolutely necessary for success in this class. Students continuing on in Visual Basic will need to be more familiar with Windows applications than what is required for CIS 180, particularly with database design principles and Microsoft Access.

Required Materials:

1. Faculty Created Resource

2. Data files: To be provided by created resource

3. Visual Basic software.

We also have an agreement with Microsoft to allow our students to copy Visual Studio.Net, which includes VB.Net, and the MSDN library. You will have to contact the CIS division secretary to pick up the installation DVD's. You may also use RVC computers to complete your VB work.

Course Requirements

Reading/completing tutorials in the text. Much of this is hands on using the VB.Net environment.

Exercises. Most weeks have an assignment that includes instructions found by downloading data file. Please be sure that work assigned as individual work is your own. Group or copied work submitted as work of an individual will receive 0 points. No late work will be accepted for this case except in the case of serious illness, and at the discretion of the instructor.

Tests. You will take three tests, plus a cumulative final exam. Each test will be worth approximately 100 points. The final exam will be cumulative and will be worth approximately 150 points.

Attendance Since this is an online course; there are no points for attendance. However, people who have been most successful in this class do not "queue up" their work. They have the self-discipline to do course work every day or every other day as they have time. People who have expressed less happiness with the class are those who wait until the due date, or the day before, to begin work. They miss out on the opportunity to ask their classmates about problems that have come up, and also experience the added stress of a close deadline. My advice is to perform all examples as you read the chapter for the week, start your work early, and participate as much as you can. I believe that is how you will get the most from this class.

Tentative Course Schedule:

Week 1

Install Visual Studio 2015 (see "Visual Studio 2010 Install" document)
Subscribe to course in iTunes U (See "Subscribe to course podcast on iTunes U")

Read Chapter 1

Download Data Files for textbook (See "Data Files - Textbook")

Week 2 - Week 14 (Week content vary)

Chapter Reading and performing examples
Chapter Assignment (Contains datafile to download and instructions)
Quiz (10 questions. Allow 3 attempts with best score out of 3)

Week 15

Final Exam

Final Grades:

Grades in this class will be determined by the 10 point scale.

A - 90 % of the average of the best scoring students in the
class B - 80 %
C - 70 %
D - 60 %

NOTIFICATION OF SERVICES FOR STUDENTS WITH DISABILITIES

"If you have a documented disability and would like to request accommodation and/or academic adjustments, contact the Disability Support Services Coordinator. You should contact the coordinator as soon as a need for accommodation is known so that implementation can occur as soon as possible. The coordinator's office is G87 in the ERC. The telephone number for this office is 921-2356."

DISCLAIMER

Circumstances may require some changes to this syllabus.

DATE SUBMITTED

Spring, 2016; C.Konkol