Rowan College at Burlington County

Course Syllabus

Division of Science and Mathematics			
Department	Computer Management Information Systems		
Faculty Member	Aloysius Nagbe		
Course Title	Programming Fundamentals		
Course Number	CIS 111-100	**Credits**	3
Prerequisites	MTH 095		
Co-requisite	None		
# of Lecture Hours	3	**# of Lab Hours**	
Semester	Spring 2021	**Location**	VLC
Course Start Date	01/22/2021	**Course End Date**	05/16/2021
Meeting Information	Mondays & Wednesdays 12:00 PM to 1:20 PM Online using Blackboard Collaborate		
Coordinator:	Aloysius Nagbe		
Coordinator Email	anagbe@rcbc	Phone	856-222-9311 ext. 2026

Faculty Contact Information	
Email: anagbe@rcbc.edu Phone:856-222-9311 ext. 2026 Web Site: Office: Technology Center Room 211B	**OFFICE HOURS:** **Monday: 11:00 AM – 11:45 AM** **Tuesday: 11:00 AM – 1:30 PM** **Wednesday 11:00 AM – 11:45 AM** **Thursday 11:00 AM – 1:30 PM** **Friday: Available by appointment**
Alternate Contact: Associate Dean: Dr Elizabeth Price	Email: eprice@rcbc.edu

Campus Resources	
Transfer Center	Evans Hall, Room 172 Monday - Friday: 8:30 am - 5 pm transfer@rcbc.edu (856) 222-9311, ext. 2737
Career Services Center	Student Success Center Monday - Friday: 9 am - 5 pm (856) 222-9311, ext. 2056 CareerServices@rcbc.edu
Tutoring Center	Student Success Center, Room 209 (856) 222-9311, ext. 2096 Monday: 9:30 am - 4 pm Tuesday: 9:30 am - 4 pm Wednesday: 9:30 am - 4 pm Thursday: 9:30 am - 4 pm Friday: Closed

	Saturday: 9:30 am - 1:30 pm Sunday: Closed

Section 2

Course Description

This course provides an introduction to programming using the QBASIC language and how to use a computer to solve a problem. It covers algorithms, flowcharts, pseudocodes, control structures, loops, subprograms, and arrays. It introduces and emphasizes structured programming techniques.

Required Text and Other Materials

Textbook:

Starting Out with Visual Basic 7th Edition by Tony Gaddis and Kip Irvine; ISBN- 13-978013438041

- Assignments will be provided via BB after lecture and will be due as specified
  - I will provide a Microsoft Visual Studio 2019 IDE software for this course. The software is free.
  - Microsoft Visio software or Draw.io can be used to design your flowchart for this course.
  - You will need a Thumb or Flash drive to save your Labs

Course Learning Outcomes

Upon completion of this course, students will be able to

- To understand the basic principles of programming and software engineering/design
- To develop problem solving skills
- To gain an understand of Algorithms
- To understand, use and draw flowcharts
- To gain an understanding of the top down approach to problem solving
- Use of LOOPING techniques
- To use various commands in preparing a program to solve a problem
- To acquire a clear comprehension of structured programming
- To understand flow control
- To acquire skill in utilizing string functions
- To gain a basic knowledge of Process flow design in a procedural fashion
- Gain a basic understanding of structured and MENU driven programs

Course Objectives

- Provides an Introduction to programming using the QBasic Language
- Covers skills needed by student to use a computer to solve a problem
- Covers Algorithms, flowcharts, pseudocodes, control structures, loops, subprograms and arrays.
- Introduces and emphasizes structured programming techniques.

General Learning Outcomes
1. Written and Oral Communication: Communication a. Students will demonstrate good business communication and interpersonal skills. b. Students will understand and apply sound principles of system design to a range of problems found in a business environment 2. Technological Competency or Information Literacy: Technology a. Students will be programming competent using a modern programming language b. Students will use critical thinking skills for computer-based access, analysis, and presentation of information.

Course Content	
• Introduction to Personal Computers and QBasic • Structured Programming and QBasic • Strings, Input and Printing • Repetition • Decisions • Procedures • For…Next Loops and QBasic Functions	• Arrays • Sequential Files processing • Random-Access File

SECTION 2:

Course and Classroom Policies:

Expectations: Students are expected to attend class, be prepared having read the text chapter beforehand, complete assignments, and to participate in discussions. Students are expected to complete and submit assignments on or before the due date. Students are expected to conduct themselves in a professional manner in classes and labs.

Required email: Students are assigned an email account by the college (*firstname_lastname@mymail.rcbc.edu*). Students are expected to use this account to correspond with the instructor and to include CIS ###(### represent the course number) in the subject line.

Attendance:

- Students are expected to attend all classes.
- Coming to class late and/or leaving class early without prior permission from the instructor will be counted as an absence.
- All materials will be collaborated as in class exercises and discussions. Attending all classes is the key to success in this class, since all projects/exams will be based on those materials that are covered in the class.

Computer Usages

- Students are not allowed to use computers for any other purposes except for lecture notes during lectures and for practical.
- Student will be asked to leave the room if he or she persists to use a computer.
- Printing is not permitted during lectures.

Late Work Policy

- All course work must be completed by the deadline, if it is not submitted by the deadline the following will occur:
    - A total of 10 points will be deducted for each week until the 5th week after the 5th week a student will receive a grade of 0.
    - All late work must be submitted via Blackboard no work should be e-mailed to the instructor.

Requesting Work

- If a student has prior engagements, that student can request to have work completed and submitted so the work can be submitted on time

Criteria for Grade Determination:

15 Week Assessments:

- There are two exams for this course - midterm and final exams.
- There will be 10 Quizzes, one per week
- There will be weekly discussion question
- Most lab assignments projects will be started in class through in-class exercises. Submitting assignments after the due date will result in loss of grade points.
- No quiz or discussion board will be given on the week of the Midterm and Finals

Tests/Exam

"Makeup" tests/exams and assignments will be accepted at the instructor's discretion and can result in loss of grade points. Make up tests will allowed only in extraordinary situations. I have a problem with my car is not an acceptable excuse.

Project

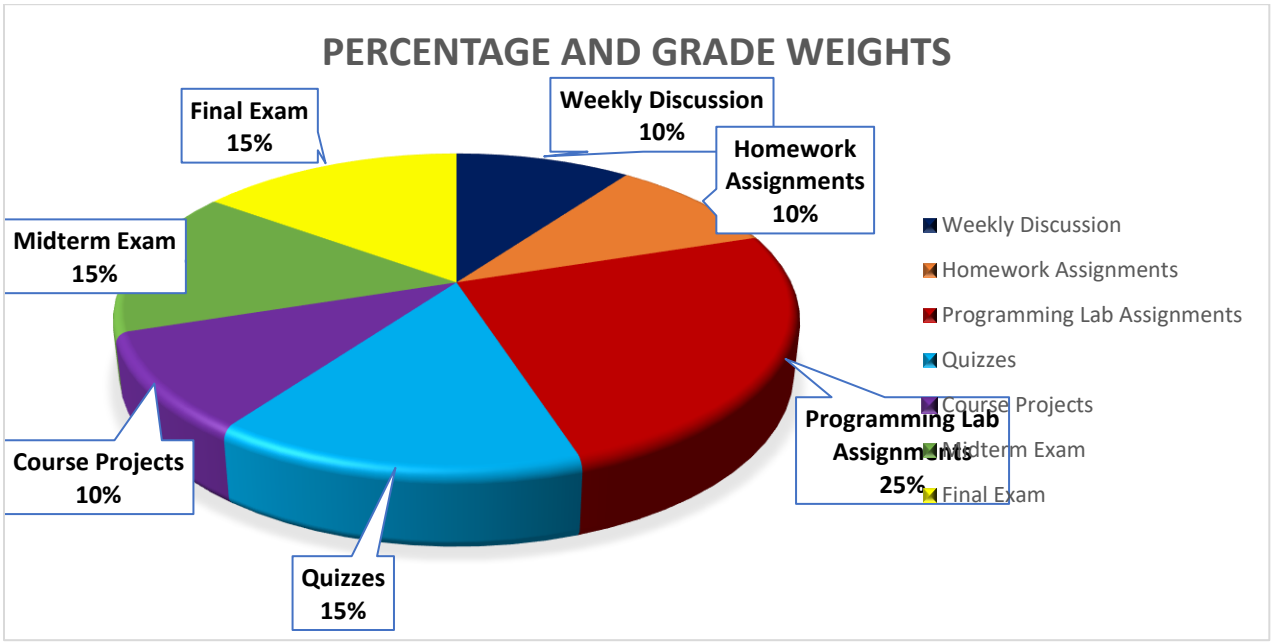
There will be two individual project assignments. The projects will give each student practical problem-solving skills need to be a computer programmer. Students will be assigned two programming challenges to evaluate and to analyze. Then the student will breakdown the problems into functional and non-functional requirements before designing and coding the solutions to those problems. Each student will be assessed based on their successful completion of the 8 grading categories for each of the projects.

Class Participation

Class participation can be a combination of attendance, seeking help from the instructor or tutor, and classroom activities.

Weighting of Assessments: A student's final grade in the course will be determined using the following percentage:

Category	*Weight*
Weekly Discussions/Attendance	*10%*
Homework Assignments	*10%*
Programming Labs Assignments	*25%*
Quizzes	15%
Course Projects	10%
Midterm Exam	*15%*
Final Exam	*15%*
TOTAL	*100%*



Grade Determination:

Letter Grade	Percentage Grade Range
A	90-100%
B+	85-89.99%
B	80-84.99%
C+	75-79.99%
C	70-74.99%
D	60-69.99%
F	< 60%

Tentative Schedule

15-Week Course Outline

Week	Topics	Chapter Readings	Labs/Projects Assignments	Assessment
1	Introduction to Programming and Visual Basic	Chapter 1	1. Week 1 Discussion 2. Week 1 Homework Assignment 3. Week 1 Labs	Quiz 1
2	Creating Application with Visual Basic	Chapter 2	1. Week 2 Discussion 2. Week 2 Homework Assignment 3. Week 2 Labs	Quiz 2
3	Variables and Calculations	Chapter 3	1. Week 3 Discussion 2. Week 3 Homework Assignment 3. Week 3 Labs	Quiz 3
4	Making Decision	Chapter 4	1. Week 4 Discussion 2. Week 4 Homework Assignment 3. Week 4 Labs	Quiz 4
5	Lists and Loops	Chapter 5	1. Week 5 Discussion 2. Week 5 Homework Assignment 3. Week 5 Labs	Quiz 5
6	Procedures and Functions	Chapter 6	1. Week 6 Discussion 2. Week 6 Homework Assignment 3. Week 6 Labs	Quiz 6
7	Review			Midterm Exam
8	Multiple Forms, Modules and Menus	Chapter7	1. Week 7 Discussion 2. Week 7 Homework Assignment 3. Week 7 Labs	Quiz 7
9	Arrays and More	Chapter 8	1. Week 8 Discussion 2. Week 8 Homework Assignment	Quiz 8

			3. Week 8 Labs	
10	Files, printing, and Structure	Chapter 9	1. Week 9 Discussion 2. Week 9 Homework Assignment 3. Week 9 Labs	
11	Working with Databases	Chapter 10	1. Week 10 Discussion 2. Week 10 Homework Assignment 3. Week 10 Labs	
12	Developing Web Applications	Chapter 11	1. Week 11 Discussion 2. Week 11 Homework Assignment 3. Week 11 Labs	
13	Classes, Collections and Inheritance	Chapter 12	1. Week 12 Discussion 2. Week 12 Homework Assignment 3. Week 12 Labs	
14	Review for the final Exam		Make up missing labs	
15				Final Exam

(Online) 10-Week Course Outline- Summer Schedule

10 Week Assessments:

- There are two exams a Midterm and a Final
- There will be 8 Quizzes, one per week
- There will be 8 Discussion Boads one per week

Please realize that if you are taking this course during a 10, or 15 weeks semester, the workload is still the same. A shorter semester does not mean less work, you still need to earn 3 credits. Therefore, you still need to do approximately 135 hours' worth of work regardless of the length of the semester.

****** Subject to change without notice.**

SECTION 3:

College Policies:

In order for students to know their rights and responsibilities, all students are expected to review and adhere to all regulations and policies as listed in the College Catalog and Handbook. The current college catalog and student handbook are important documents for understanding your rights and responsibilities as a student in the BCC classroom. Please read your catalog and handbook as they supplement this syllabus, and can be accessed at rcbc.edu/publications . Important policies and regulations include, but are not limited, to the following:

- College Attendance Policy
- Grading Standards

  - Withdraw (W) and Incomplete Grades (I & X)
  - Withdrawal date for this semester – Academic Calendar
- Student Code of Conduct
  - Academic Dishonesty/Plagiarism and Civility
- Use of Communication and Information Technology

Academic Integrity Code

- ***Plagiarism*** – Plagiarism includes copying or paraphrasing another's words, ideas, or facts without crediting the source; submitting a paper written by someone else, either in whole or in part, as one's own work; or submitting work previously submitted for another course or instructor. Plagiarism on any assignment will result in failure for that assignment and may result in further disciplinary action, including but not limited to failure for the course. Please refer to the Student Handbook for additional information regarding plagiarism and College regulations.

- ***Texting, Cell phones, and Laptops*** – should be turned off in class or the ringer must be turned to silent. No texting is allowed in class during instruction time.

- ***Internet and Other Computer Use*** – all students are required to abide by established RCBC computer and Internet use procedures and regulations. Willful damage to or misuse of RCBC computers and/or software will be considered a violation of the RCBC Student Code of Conduct. Criminal prosecution may also result. This applies to IPODS, games or electronics of any kind, instant messenger, and social media.

Student Conduct Code - We shall abide by the expectations outlined in the Student Handbook (page 106-112). RCBC students are accountable according to the standards established in this policy. http://www.rcbc.edu/PDFFiles/publications/1314Handbook.pdf

Tutoring - RCBC offers free tutoring for all currently enrolled students. For more information regarding the Tutoring Center, please call extension 1495 at (609) 894-9311 or visit the Tutoring Center website at: http://www.rcbc.edu/pages/218.asp

Academic Advisement – RCBC provides Academic advising and free referral services to all students through the office of Academic Advising. For more information, visit the drop in centers at the Lewis Parker Center (Pemberton Campus) or Laurel Hall (Mt. Laurel Campus). Call extension 7337 at (609) 894-9311 or (856) 222-9311 or visit the website at: ***http://www.rcbc.edu/pages/206.asp***

Library Resources – The RCBC Library provides access to the information resources you need to succeed in your studies, including books, journals and databases. Library Information Specialists provide support in finding and utilizing these resources. Library services are available at the Pemberton and Mount Laurel campuses and online. In Pemberton you can visit the Library located in the William K. McDaniel Integrated Learning Resource Center (ILRC), in Mt. Laurel at the Technology and Engineering Center (TEC) and online at **http://staff.rcbc.edu/library**. Online services include IM Chat, text, and phone support during regular hours and access to a wide variety of journals and databases 24/7/365 from both on and off campus. Library hours are posted in the libraries and on the library website.

Office of Student Support and Disability Services: RCBC welcomes students with disabilities into the college's educational programs. Access to accommodations and support services for students with learning and other disabilities is facilitated by staff in the Office of Student Support (OSS). To receive accommodations, a student must contact the OSS, self-identify as having a disability, provide appropriate documentation, and participate in an intake appointment. If the documentation supports the request for reasonable accommodations, the OSS will provide the student with an Accommodation Plan to give to

instructors. For additional information, please contact the Office of Student Support at 609-894-9311, ext. 1208, disabilityservices@rcbc.edu, or rcbc.edu/studentsupport.

Educational Technology Statement: Rowan College at Burlington County (RCBC) advocates the use of technology to enhance instruction. Students should assume that classroom and online technology will be used throughout their coursework at RCBC, as it will most certainly be used in their future education and careers. The College provides on-campus facilities for the convenience of the RCBC community. Various college departments, including the Office of Information Technology and the Office of Distance Education, provide technology training and assistance to faculty and students.

Student Success Services: RCBC offers a variety of free services for its students including those listed below. Descriptions of these services, as well as many others, can be found in the College Catalog and Handbook and on the RCBC website at rcbc.edu/publications.

- Academic Advisement (rcbc.edu/advising)
- Career Services (rcbc.edu/careers)
- Educational Opportunity Fund (EOF) (rcbc.edu/eof)
- Financial Aid (rcbc.edu/financialaid)
- International Students Office (rcbc.edu/international)
- Library/Integrated Learning Resource Center (ILRC) (rcbc.edu/library)
- Office of Veteran Services (rcbc.edu/vets)
- Student Support Counseling (rcbc.edu/cpit)
- Tutoring Center (rcbc.edu/tutoring)
- Test Center (rcbc.edu/testcenter)
- Transfer Services (rcbc.edu/transfer)