SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 24.0101

SEMESTER: Departmental Syllabus

COURSE TITLE: Visual Basic

COURSE NUMBER: CIST-0180

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: 913-334-1100

EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): CIST-0101 Computer Concepts and Applications or CIST-0111 Microcomputer Business Software

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION: This course is an introduction to the Visual Basic Language. It will be used by students to program within the Windows Operating System. Students will learn basic Object Oriented programming. Extensive hands on experiences are emphasized.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
I. Introduction to Visual Basic
II. Designing Applications
III. Using Variables and Constants
IV. The Selection Structure  
V. The Repetition Structure  
VI. Sequential Access Files and Menus  
VII. Dialog Boxes and Error Trapping  

EXPECTED LEARNER OUTCOMES: 
A. The student will be able to describe and demonstrate the usage of contemporary programming methodology, specifically Visual Basic programming. 
B. The student will be able to participate in problem-solving teams. 
C. The student will be able to analyze, design, code, document and test VISUAL BASIC programs using the most common features and standards of the language. 
D. The student will be able to create user-friendly interfaces and help systems using VISUAL BASIC as a tool for creation and front-end interface. 
E. The student will be able to summarize use reference manuals, help tools, and debugging tools to solve problems. 

COURSE COMPETENCIES: 
Upon successful completion of this course: 

The student will be able to describe and demonstrate the usage of contemporary programming methodology, specifically Visual Basic programming. 

1. The student shall be able to demonstrate dialog with designing applications. 
2. The student shall be able to demonstrate the ability to solve problems through proper program design. 
3. The student shall be able to complete a Task, Object, Event chart. 
4. The student shall be able to plan an object’s code using pseudo code or a flowchart. 
5. The student shall be able to demonstrate the planning of an application. 

The student will be able to participate in problem-solving teams. 

6. The student will be able to demonstrate ability to participate in problem-solving teams. 

The student will be able to analyze, design, code, document and test VISUAL BASIC programs using the most common features and standards of the language. 

7. The student shall be able to follow Windows standards regarding the use of graphics, fonts, and colors. 
8. The student shall be able to demonstrate the use of color with designing applications. 
9. The student shall be able to set the properties of a label, picture box, and button control. 
10. The student shall be able to demonstrate the ability of coding using variables and constants. 
11. The student shall be able to design and develop programs using random access file access with the selection structure. 
12. The student shall be able to demonstrate the use of the repetition structure. 
13. The student shall be able to develop programs to give users use of sequential access files. 
14. The student shall be able to demonstrate the use of dialog boxes. 
15. The student shall be able to demonstrate error trapping. 
16. The student shall be able to write an If…, Then…,Else statement. 
17. The student shall be able to write code that uses comparison operators and logical operators. 
18. The student shall be able to code a case selection structure.
19. The student shall be able to create and call an independent Sub procedure. The student will be able to create user-friendly interfaces and help systems using VISUAL BASIC as a tool for creation and front-end interface.

20. The student shall be able to identify and explain the use of graphical user interface using Visual Basic.

21. The student shall be able to show the proper use of menus with designing applications.

22. The student shall be able to demonstrate the use of controls with designing applications.

23. The student shall be able to develop programs to give users use of menus.

24. The student shall be able to delete a control from the form and code from the code editor window.

25. The student shall be able to create a message box. The student will be able to summarize use reference manuals, help tools, and debugging tools to solve problems.

26. The student will be able to demonstrate the ability to use reference manuals, help tools, and debugging tools to solve problems.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

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Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center at 913-288-7670.