Administrative Unit: Computer and Mathematical Sciences Department

Course Prefix and Number: CISS 234

Course Title: Visual Basic

Number of: Credit Hours: 3  Lecture Hours: 3  Laboratory Hours: 0

Catalog Description: This course is an introduction to programming using Visual Basic. The course will emphasize Visual Basic syntax and creating user interfaces in Visual Basic. Topics will include application and design, using variables and constants, the selection and repetition structures, sequential access files, menus, dialog boxes and error trapping, random access files, database access and arrays.

Prerequisite(s)/Corequisite(s): CISS 170, MATH 150


Course Objectives:
- To decompose and map problems onto Visual Basic syntactical constructs.
- To test VB programs using appropriate techniques.
- To utilize graphic processing techniques.
- To utilize file processing techniques.
- To build graphical user interfaces.

Measurable Learning Outcomes:
- Utilize basic control structures such as if/then/else, do while, do until, while, and for/next.
- Utilize modules, classes, and procedures to organize program structure.
- Process arrays in appropriate situations.
- Employ object-based constructs and techniques such as classes, inheritance, and polymorphism.
- Explain exception handling.
- Develop graphical user interfaces.
- Process files and streams.
- Connect to database and issue queries.

Topical Outline (major areas of coverage):
- Introduction to Visual Basic
- Designing Applications
- Using Variables and Constants
- The Selection Structure
- The Repetition Structure
- Sequential Access Files, Menus, and Reports
- Dialog Boxes and Error Trapping
- Graphics primitives
- Random Access Files
Recommended maximum class size for this course: 20

Library Resources: Online databases are available at http://www.ccis.edu/offices/library/resources.asp. You may access them from off-campus using your eServices login and password when prompted.

Prepared by: Lawrence West

Date: April 14, 2005

NOTE: The intention of the master syllabus is to provide an outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught or where it is taught. Faculty members teaching this course for Columbia College are expected to facilitate learning pursuant to the course objectives and cover the subjects listed in the topical outline. However, instructors are also encouraged to cover additional topics of interest so long as those topics are relevant to the course’s subject. The master syllabus is, therefore, prescriptive in nature but also allows for a diversity of individual approaches to course material.

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