

STANDARDIZED COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER: CSC 206

COURSE TITLE: Visual Basic II

COURSE CATALOG DESCRIPTION:

This course is a continuation of Visual Basic (Course CSC*205). The emphasis is on more complex programming tasks. Students will be given the opportunity to create programs to process sequential, random access, and database files. Topics such as using data arrays, object linking and embedding, data exchange, and building graphics into the program interface will also be covered. *Formerly listed as CIS 210, not open to students who have successfully completed CIS 210.*

LECTURE HOURS PER WEEK: 3

CREDIT HOURS: 3

LAB HOURS PER WEEK (if applicable): n/a

PREREQUISITE(S): CSC 205

SECTION II

A. SCOPE:

This course covers advanced Visual Basic computer programming concepts and techniques. The course topics include: Arrays and Timers; Files, Printing and Structures; Working with Databases; Advanced Database Programming and SQL; Classes, Exceptions, Collections and Scrollable Controls; and Inheritance, Custom Controls and Using the Clipboard.

B. REQUIRED WORK:

Will vary by instructor. Students will be expected to do all required readings, assignments, tests, and quizzes as outlined by their instructor.

C. ATTENDANCE AND PARTICIPATION:

Regular attendance, assignment submission timeliness, promptness and class/lab participation will be expected. Instructors will include specific attendance and participation policies requirements in their class syllabi.

D. METHODS OF INSTRUCTION:

Methods may include any of the following: lecture, lecture/discussion, small group, collaborative learning, experimental/exploration, distance learning, student presentations, computer demonstrations, or use of technologies such as audio-visual materials, and computer laboratory equipment. Emphasis will be on hands-on computer exercises and problems.

E. OBJECTIVES, OUTCOMES, and ASSESSMENT

Students' grades will be based on achievement of learning the objectives and outcomes listed below as measured by the instructor's methods of assessment:

LEARNING OBJECTIVES	LEARNING OUTCOMES	ASSESSMENT METHODS
To demonstrate an understanding of:	Student will:	As measured by:
Arrays and Timers	a) Explain and use Arrays b) Use Timer Controls and Random Numbers c) Demonstrate problem solving skills	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Files, Printing and Structures	a) Use files b) Use the OpenFileDialog, SaveFileDialog, and PrintDocument Controls	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Working with Databases	a) Explain and use databases b) Use ADO.NET for databases c) Create an application that works with an Access Database	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Advanced Database Programming and SQL	a) Explain and use SQL b) Use ADO.NET for SQL c) Use the DataGrid Control	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Classes, Exceptions, Collections and Scrollable Controls	a) Explain and use Classes and Objects b) Use Exception and Error Handling c) Use the Object Browser d) Work with scrollable controls	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Inheritance, Custom Controls and Using the Clipboard	a) Explain and use Inheritance b) Complete an application that uses inheritance c) Create Custom Controls d) Share text with Clipboard	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations

F. TEXT(S) AND MATERIALS:

An appropriate Visual Basic Text, such as:

Text: *Starting out with VISUAL BASIC.NET (current edition)*

Author: Gaddis, Irvine and Denton

Publisher: Addison Wesley

G. INFORMATION TECHNOLOGY:

This course is an information technology course and will require extensive computer lab time both for teaching and performing assignments. Students will require network accounts with access to a current version of Visual Basic as well as file storage space.