

STANDARDIZED COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER: CSC 205

COURSE TITLE: Visual Basic I

COURSE CATALOG DESCRIPTION:

This course guides the student through the process of creating programs in Visual Basic. Provides a task-driven experience to allow students to perform complex programming tasks more easily than would be possible without a visual language. *Formerly listed as CIS 115, not open to students who have successfully completed CIS 115.*

LECTURE HOURS PER WEEK: 3

CREDIT HOURS: 3

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

PREREQUISITE(S): CSC 101

SECTION II

A. SCOPE:

This course introduces students to introductory Visual Basic computer programming. The course topics include: Introduction to Programming and Visual Basic.NET; Creating Applications with Visual Basic.NET; Input, Variables, Constants and Calculations; Making Decisions and Working with Strings; List, Loops, and Validation; Sub Procedures and Functions; and Multiple Forms, Standard Modules and Menus.

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:
Introduction to Programming and Visual Basic.NET	a) Explain programming and programming logic b) Explain programming controls c) Use Visual Studio	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Creating Applications with Visual Basic.NET	a) Design, create, and save an application project b) Add controls to a project c) Set properties d) Modify and debug an application	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Input, Variables, Constants and Calculations	a) Gather text input b) Use variables and constants for calculations c) Use number and form formatting for output d) Use the load event procedure	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Making Decisions and Working with Strings	a) Use IF ..Then statements b) Use IF ..Then...Elseif statements c) Use Nested If statements d) Use Select Case statements e) Use Class Level variables	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
List, Loops, and Validation	a) Create Do While and Do Until loops b) Create single-column and multi-column list boxes	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Sub Procedures and Functions	a) Use Sub procedures b) Pass values to sub procedures c) Use Function Procedures	<ul style="list-style-type: none"> • Homework/Lab assignments; • Written and Oral activities; • Quizzes and Exams; • Projects and Presentations
Multiple Forms, Standard Modules and Menus	a) Use multiple forms b) Create standard modules c) Build menus	<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.