

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

___ Transfer course

x A.A. degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: CSIS 218 Visual Basic for ApplicationsI

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 64

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills

ENTRANCE REQUIREMENTS:

Prerequisite: CSIS 217

Corequisite: None

Recommended Preparation: None

SCOPE OF COURSE:

This course is designed to apply skills developed in previous MS Office and Visual Basic programming classes. Includes learning the Visual Basic for Applications model to programmatically create integrated Microsoft Word and Excel applications.

SPECIFIC COURSE OBJECTIVES:

1. Apply system, program, and database design and development concepts.
2. Increase knowledge of Microsoft Office Access, Excel, and Word including the creation of data, text and graphic objects.
3. Implement the functions of ActiveX, DDE, MAPI, SQL, and OLE controls and utilities.
4. Use Visual Basic including standard and custom controls, and programming statements to link application objects and procedures into an integrated application solution.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- A. Defining the Problem**
 - 1. Breakdown of system design methods
 - 2. Review of Object-Oriented & Event-Driven programming concepts
- B. Building a User Interface**
 - 1. Program planning and design
 - 2. Form relationship and development of the graphical user interface
 - 3. Data validation
- C. Database Design**
 - 1. Database concepts
 - 2. Data Access Object model
 - 3. Structured Query Language
 - 4. ActiveX Controls for database manipulation
 - a) Data controls, lists, grids, and other data aware controls
 - b) Initialization, termination, and response to user events
- D. Controlling Dynamic Data Exchange (DDE) Operations**
 - 1. DDE link types
 - 2. Build a DDE link to Excel and Word
 - 3. Use Application Programming Interface (API) functions
- E. Using Object Linking and Embedding (OLE) Automation**
 - 1. Contrast of DDE and OLE
 - 2. Fundamentals of the Component Object Model (COM)
 - 3. Controlling application objects with Visual Basic
- F. Print, Mail, Fax, and PowerPoint**
 - 1. Use and setup of Printer objects
 - 2. Transmitting data using Microsoft Exchange Fax utility
 - 3. Sending data as attached electronic mail messages
 - 4. Use of OLE facilities to create PowerPoint slides
- G. Creating a Messaging Application Programming Interface (MAPI) application**
 - 1. Introduction of MAPI concepts, methods, and properties
 - 2. Review the use of the CommonDialog control
 - 3. Creation of an interface to read and process electronic mail
- H. Publishing to the Web**
 - 1. Transferring data on the internet
 - 2. Creating an HTML document
 - 3. Creation of a Web browser using Visual Basic

- I. Packaging an Application
 1. Testing
 2. Compiling an application
 3. Creating a distribution file
 4. Working with resource files

REQUIRED READING:

Gilster, Ron and Karen Braunstein-Post, Building Applications with Microsoft Office and Visual Basic. California: Scott/Jones Publishing Co., 1998.

SUGGESTED READING: None

REQUIRED WRITING:

Problem solving exercises are assigned, requiring students to complete eight to ten programming assignments. Each programming lab will apply theoretical concepts and syntax introduced in reading assignments and lecture. Each assignment will require program documentation to record overall design goals and procedure specific function.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

The assignments will follow a semester long running case study to build an integrated database business application. Outside assignments will include completion of laboratory work, assigned readings, and review of instructor hand supplied reading supplements.

INSTRUCTIONAL METHODOLOGY:

At a minimum, specify lecture, laboratory, lecture-laboratory combination, or directed study. You may add a statement.

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380. Yes No

If yes, check all that apply:

telecourse

mediated instruction

computer assisted instruction

GRADING POLICY AND STANDARDS :

Programming Assignments	60%
Midterm Test	20%
Final Exam	20%
Exercises	10%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: _____.

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SIGNATURES ON FILE
