COURSE OUTLINE

	MS Applications Using Visual Basic	_		IT 210
	Course Title			Dept. & Course No.
I.	COURSE DESCRIPTION			
	This course covers how to write cust include linking to other Windows ap time errors.			
II.	SEMESTER CREDITS:3	_		
III.	CONTACT HOURS PER WEEK:	Lecture	3 Lab	5 Total
IV.	PREREQUISITE: IT	205		
V.	STUDENT LEARNING OUTCOM Upon completion of this course the s will be able, with 65% level of accur	student	VI. CO	URSE CONTENT:
	Discuss the history of Basic, Microsoft, and Visual Basic for Applications.	A.	and Visual Bas 1. Discussin Visual B 2. Discussin	ng the history of Microsoft ing Visual Basic for
	Introduce the Visual Basic Editor environment.	В.	environment. 1. Saving, reprocedur 2. Using Visual Microsoft 3. Using Visual Microsoft 4. Using Visual	sual Basic Editor in
	3. Discuss the Object Model.	C.	 Recogniz Identifyi program Using th 	ng and calling objects in th

- 4. Discuss and utilize object variables.
- D. Discussing, identify, and utilizing object variables.
 - 1. Determining when to use object variables.
 - 2. Selecting appropriate data types and names for object variables.
 - 3. Creating and utilizing object variables.
 - 4. Initializing object variables using the Set statement.

- 5. Discuss, define, and initialize String variables.
- E. Discussing, defining and initializing String variables.
 - 1. Determining when to use String variables.
 - 2. Selecting appropriate names for String variables.
 - 3. Assigning values to String variables.
 - 4. Utilizing String concatenation.
- 6. Discuss and utilize Date variables.
- F. Discussing and utilizing Date variables.
 - 1. Determining when to use Date variables.
 - 2. Selecting appropriate names for Date variables.
 - 3. Assigning values to the Date variables.
 - 4. Arranging Date variables using the Format Function.
 - 5. Utilizing Date variables in calculations.
 - 6. Converting Strings to Dates.

- 7. Discuss and utilize Numeric variables.
- G. Discussing, identifying, and utilizing Numeric variables.
 - 1. Determining when to use Numeric variables.
 - 2. Selecting appropriate names for Numeric variables.
 - 3. Assigning values to Numeric variables.

- 8. Discuss and utilize Selection structures.
- H. Discussing, recognizing, and utilizing Selection structures.
 - Selecting areas to use Selection structures.
 - 2. Determining which Selection structure to use.
 - 3. Identifying comparison operators and generating logical statements to use with the Selection structures.

- Discuss and use Repetition structures.
- Discussing and using Repetition structures.
 - Selecting areas to use Repetition structures.
 - Determining which Repetition structure to use.
 - 3. Identifying comparison operators and generating logical statements to use with the Repetition structures.
 - 4. Selecting appropriate termination statements to use with Repetition structures.
- 10. Discuss and utilize error handling and trapping features.
- J. Discussing and utilizing error handling and trapping features.
 - Selecting areas to include Error handling and trapping statements.
 - Identifying comparison and logic operations to use.
 - 3. Creating statements to catch, intercept, and handle errors.
 - Selecting appropriate user feedback display.
- Apply other built-in objects and features of Visual Basic for Applications.
- K. Applying other built-in objects and features.
 - Using built-in dialog boxes.
 - 2. Creating custom dialog boxes.
 - Creating option buttons, check boxes, list box controls and other objects.
 - Using Automation to control objects in other applications through Visual Basic for Applications.

VII. Equipment and Materials

- A. Student computer with Windows OS and Microsoft Office
- B. Projector
- C. Routine classroom materials
- D. 1 USB storage device (at least 1GB)—student-furnished

VIII. Text

A. Required Text:

Mansfield, Richard. <u>Mastering VBA for Microsoft Office 2007</u>. Wiley Publishing, Inc., 2008.

B. Supplementary References: handouts

IX. Methods of Instruction

- A. Lecture
- B. Demonstration
- C. Hands on Experience
- D. Questions and Answers (Discussion)

X. Method of Evaluation

A.	Description	Points
	Programming Assignments	20%
	Quizzes / Exercises	20%
	Chapter Tests	20%
	Midterm Exam / Project	20%
	Final Exam / Project	20%

Total-----100%

B. Transmutation of percent to letter grade

90-100	A
80-89	B
70-79	C
65-69	D
0-64	F

TASK LISTING SHEET

		Creans:		<u> </u>	40
	Course No. & Title	,	Lecture	Lab	Total Lab Hrs.
Tools					Time
<u>Task</u>					Time
CI O	42				2 1
	Ones spiriting Misses & Office Sia		••••••	••••••	3 hours
1.	Open existing Microsoft Office file.				
2.	Open the Visual Basic Editor window.				
3.	Open existing modules.				
4.	View existing program codes.				
5.	Make changes to the code.				
6.	Save the changes.				
7.	Run the code.				
8.	Make corrections if necessary.				
9.	Print the program code.				
10.	Close the Visual Basic Editor window.				
11.	Close / Exit Microsoft Office application.				
SLO ?	‡ 3				5 hours
1.	Open existing Microsoft Office file.				
2.	Open the Visual Basic Editor window.				
3.	Open existing modules.				
4.	View existing program codes.				
5.	Open the Object Browser window.				
6.	Open the Immediate window.				
7.	Insert objects and lines of code into the Immed	liate window.			
8.	Analyze the result of the Immediate window.				
9.	Apply the object and code to the program.				
10.	Run the program.				
11.	Make corrections if necessary.				
12.	Print the program code.				
13.	Save the changes.				
14.	Close the Visual Basic Editor window.				
15.	Close / Exit Microsoft Office application.				
15.	Close / Date Microsoft Office application.				
SLO	¥4				5 hours
1.	Open existing Microsoft Office file.				
2.	Open the Visual Basic Editor window.				
3.	Open existing modules.				
4.	View existing program codes.				
5.	Select scope for the object variables.				
6.	Declare and name the object variables.				
7.	Assign appropriate data type to the object vari	ables			
8.	Assign the object variables to existing objects.				
0.	Assign the object variables to existing objects.				

 Run the program. Make corrections if necessary. Print the program code. Save the changes. Close the Visual Basic Editor window. Close / Exit Microsoft Office application. 	
SLO #5	hours
1. Open existing Microsoft Office file.	nours
2. Open the Visual Basic Editor window.	
 Open existing modules. 	
4. View existing program codes.	
Select scope for the String variables.	
6. Declare and name the String variables.	
 Assign appropriate data type to the String variables. 	
8. Set or assign the values of the String variables.	
9. Use concatenation if necessary.	
10. Run the program.	
11. Make corrections if necessary.	
12. Print the program code.	
13. Save the changes.	
14. Close the Visual Basic Editor window.15. Close / Exit Microsoft Office application.	
SLO #6	iours
 Open the Visual Basic Editor window. 	
3. Open existing modules.	
 View existing program codes. 	
 Select scope for the Date variables. 	
6. Declare and name the Date variables.	
7. Assign appropriate data type to the Date variables.	
8. Set or assign the values of the Date variables.	
9. Apply specific format to the Date variables values using the Format function.	
10. Convert String values to Date values.	
11. Use the Date values in calculations.	
12. Run the program.	
13. Make corrections if necessary.	
14. Print the program code.	
15. Save the changes.	
15. Save the changes.16. Close the Visual Basic Editor window.	
6.00	
16. Close the Visual Basic Editor window.	ours

2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	Open the Visual Basic Editor window. Open existing modules. View existing program codes. Select scope for the Numeric variables. Declare and name the Numeric variables. Assign appropriate data type to the Numeric variables. Set or assign the values of the Numeric variables. Run the program. Make corrections if necessary. Print the program code. Save the changes. Close the Visual Basic Editor window. Close / Exit Microsoft Office application.	
ST O	40	
	#8	
1. 2.	Open existing Microsoft Office file.	
3.	Open the Visual Basic Editor window. Open existing modules.	
4.	View existing program codes.	
5.	Select areas to insert Selection structures.	
6.	Choose which Selection structure to use.	
7.	Identify comparison operators to use with the structures.	
8.	Insert the Selection statements with all necessary lines of code.	
9.	Run the program.	
10.	Make corrections if necessary.	
11.	Print the program code.	
12.	Save the changes.	
13.	Close the Visual Basic Editor window.	
14.	Close / Exit Microsoft Office application.	
SLO #	#95 hours	ž
1.	Open existing Microsoft Office file.	
2.	Open the Visual Basic Editor window.	
3.	Open existing modules.	
4.	View existing program codes.	
5.	Select areas to insert Repetition structures.	
6.	Choose which Repetition structure to use.	
7.	Identify comparison operators to use with the structures.	
8.	Insert the Repetition statements with all necessary lines of code.	
9.	Run the program.	
10.	Make corrections if necessary.	
11.	Print the program code.	
12. 13.	Save the changes. Close the Visual Basic Editor window.	
14.	Close / Exit Microsoft Office application.	
17.	Close / Exit wherosoft office application.	
SLO #	#105 hours	į
1.	Open existing Microsoft Office file.	
2.	Open the Visual Basic Editor window.	

4.	View existing program codes.
5.	Select areas to insert error handling and trapping statements.
6.	Identify comparison and logic operators to use with the statements.
7.	Insert the error handling and trapping statements with all necessary lines of code.
8.	Insert codes to display customized message boxes if error occurs.
9.	Run the program.
10.	Make corrections if necessary.
11.	Print the program code.
12.	Save the changes.
13.	Close the Visual Basic Editor window.
14.	Close / Exit Microsoft Office application.
SLO	#115 hours
1.	Open existing Microsoft Office file.
2.	Open the Visual Basic Editor window.
3.	Open existing modules.
4.	View existing program codes.
5.	Open the Object Browser window.
6.	Insert built-in dialog boxes.
7.	Create custom dialog boxes.
8.	Insert option buttons.
9.	Insert check boxes.
10.	Insert list box controls and other objects.
11.	Create macros to automate repetitive actions / commands.
12.	Attach the recorded macros to existing control objects.
13.	Run the program.
14.	Make corrections if necessary.
15.	Print the program code.
16.	Print the file.
17.	Save the changes.
18.	Close the Visual Basic Editor window.
19.	Close / Exit Microsoft Office application.
	TOTAL <u>48 hours</u>

Open existing modules.

3.

Palau Community College IT 210-MS Application Using Visual Basic Course Learning Outcomes

During the course experience, the *Course Learning Outcomes* (CLOs) will be assessed through the use of signature assignments. A rating scale will be used to determine the students' proficiency level of each CLO using specifically aligned assignments. The numerical ratings of 4, 3, 2 and 1 are not intended to represent the traditional school grading system of A, B, C, D and F. The descriptions associated with each of the numbers focus on the level of student performance for each of the course learning outcomes listed below.

Rating Scale: 4------Exceeds Expectations
3------Meets Expectations
2------Developing
1------Below Expectations

CLO #1:

Numerical Value	Plan, design, and develop Word documents utilizing Visual Basic for Application functions and capabilities.
4	Perform all of the following tasks accurately and completely: Define and initialize all necessary variables. Identify areas where selection structures are necessary and write syntactically and logically correct selection statements. Identify areas where repetition structures are necessary and write syntactically and logically correct repetition statements. Identify areas where error trapping and handling procedures are necessary and write syntactically and logically correct error handling statements.
3	Perform the tasks mentioned above with mixed quality, but most are adequate and complete.
2	Perform the tasks mentioned above with mixed quality, but most are inadequate or incomplete.
1	Perform the tasks mentioned above inaccurately or incompletely.

CLO #2:

Numerical Value	Plan, design, and develop Excel workbooks utilizing Visual Basic for Application functions and capabilities.
4	 Perform all of the following tasks accurately and completely: Define and initialize all necessary variables. Identify areas where selection structures are necessary and write syntactically and logically correct selection statements. Identify areas where repetition structures are necessary and write syntactically and logically correct repetition statements. Identify areas where error trapping and handling procedures are necessary and write syntactically and logically correct error handling statements.
3	Perform the tasks mentioned above with mixed quality, but most are adequate and complete.
2	Perform the tasks mentioned above with mixed quality, but most are inadequate or incomplete.
1	Perform the tasks mentioned above inaccurately or incompletely.

CLO #3:

Numerical Value	Plan, design, and develop PowerPoint presentations utilizing Visual Basic for Application functions and capabilities.
4	Perform all of the following tasks accurately and completely: Define and initialize all necessary variables. Identify areas where selection structures are necessary and write syntactically and logically correct selection statements. Identify areas where repetition structures are necessary and write syntactically and logically correct repetition statements. Identify areas where error trapping and handling procedures are necessary and write syntactically and logically correct error handling statements.
3	Perform the tasks mentioned above with mixed quality, but most are adequate and complete.
2	Perform the tasks mentioned above with mixed quality, but most are inadequate or incomplete.
1	Perform the tasks mentioned above inaccurately or incompletely.

CLO #4:

Numerical Value	Plan, design, and develop Access databases utilizing Visual Basic for Application functions and capabilities.
4	Perform all of the following tasks accurately and completely: Define and initialize all necessary variables. Identify areas where selection structures are necessary and write syntactically and logically correct selection statements. Identify areas where repetition structures are necessary and write syntactically and logically correct repetition statements. Identify areas where error trapping and handling procedures are necessary and write syntactically and logically correct error handling statements.
3	Perform the tasks mentioned above with mixed quality, but most are adequate and complete.
2	Perform the tasks mentioned above with mixed quality, but most are inadequate or incomplete.
1	Perform the tasks mentioned above inaccurately or incompletely.