

10/17/2022 DATE

☒ REQUIRED COURSE

☐ ELECTIVE COURSE

Business DIVISION

☐ NEW COURSE

☒ REVISION

Lake Land College

Course Information Form

COURSE NUMBER:		CIS-052		TITLE: (30 Characters Max)		Visual Basic											
SEM CR HRS:		4		Lecture:		3		Lab:		2				ECH:		5	
Course Level:		<input type="checkbox"/> Gen Ed / IAI		<input checked="" type="checkbox"/> Career/Technical		Clinical Practicum:		0		SOE/ Internship:		0		SOE ECH:		0	
		<input type="checkbox"/> Baccalaureate /Non-IAI		<input type="checkbox"/> Dev Ed/ Not in Degree Audit													
COURSE PCS #		12.11021		IAI Code										Contact Hours Per Week			
Repeatable (Y/N):		Y		Pass/Fail (Y/N):		N		Variable Credit (Y/N):		N		Min:				Max:	
												16 Wks		250		8 wks 500	
Prerequisites:		CIS-156															
Catalog Description: (40 Word Limit)		Continuation of fundamentals of programming including selection, iteration, and condition structures. Introduction to graphical interface(s) and object-oriented, event-driven applications requiring the use of events, arrays, classes, inheritance, file handling, error handling and more. Also includes ASP.NET applications and ADO.NET applications.															

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Non-Clinical Internship/ SOE
Introduction to Visual Basic	2	1		
Designing Applications	5	3		
Variables and Arithmetic Operations	3	2		
Decision Structure	5	4		
Repetition Structure	5	4		
Web Applications ASP.NET	5	3		
Databases ADO.NET	5	3		
Procedures and Exception Handling	5	3		
Arrays	5	3		
Classes and Inheritance	5	4		
TOTAL	45	30	0	0

EVALUTION			
QUIZZES	<input checked="" type="checkbox"/>	EXAMS	<input checked="" type="checkbox"/>
LAB WORK	<input checked="" type="checkbox"/>	PROJECTS	<input checked="" type="checkbox"/>
		ORAL PRES	<input type="checkbox"/>
		COMP FINAL	<input type="checkbox"/>
		PAPERS	<input type="checkbox"/>
		OTHER	<input type="checkbox"/>

COURSE MATERIALS		
TITLE:	Microsoft Visual Basic 2017 (ISBN: 1337102113)	
AUTHOR:	Hoisington	
PUBLISHER:	Cengage	
VOLUME/EDITION/URL:	For Windows, Web, Windows' Store and Database Applications: Comprehensive, 1st edition	
COPYRIGHT DATE:	2018	

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Introduction to Visual Basic	2	Explain event-driven programming. Configuring and customizing the VB environment. Identify Basic program operations. Identify Types of VB applications.
Designing Applications	5	Create a project. Add and resize objects. Change properties. Describe Program Development Life Cycle. Code and run a program.
Variables and Arithmetic Operations	3	Use variables in code. Identify Data types. Identify Literals and Constants. Identify Scope of variables. Create Procedures. Use Arithmetic Operations.
Decision Structure	5	Use If then else structure. Use Select case structure. Use Relational and Logical operators.

Repetition Structure	5	Create Do while and For next loops. Validate data. Use counters and accumulators. Create Nested loops. Set breakpoints.
Web Applications ASP.NET	5	Create a Web form using ASP.NET. Set properties. Add objects. Validate data. Use tag. Use string manipulation.
Databases ADO.NET	5	Create a Database Application using ADO.NET. Establish a database connection. Add, delete and select records.
Procedures and Exception Handling	5	Code a Sub procedure. Pass an argument by value and reference. Code a function procedure. Use a Try-Catch block.
Arrays	5	Create an array. Store data and manipulate an array. Sort an array. Describe parallel arrays. Create two-dimensional arrays.
Classes and Inheritance	5	Create a class. Instantiate an object. Demonstrate how to pass arguments. Write a class constructor. Write overridable procedures.
45		

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:
	<ul style="list-style-type: none"> Understand the three basic logic structures.
	<ul style="list-style-type: none"> Understand how to create and use a sub procedure.
	<ul style="list-style-type: none"> Understand how to create and use an array.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.