

Course Outcome Guide (COG)

Approved 03 MAY 2012

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Course:	CSCI 122 Visual Basic	Credits:	3	Instructor:	
Course Description:	Introduction to the fundamentals of Visual Basic.Net, and the basic concepts and methods of beginning object oriented programming.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> • Basic Program Operations • Other Programming Languages • Using Visual Studio-Visual Basic • Program Development Life Cycle • The User Interface • Working with controls • Event Planning • Data Entry and Data Types • Arithmetic Operations • Functions and Procedures • Debugging • Conditional Statements • Loop Structures 	<ul style="list-style-type: none"> • Describe basic program operations • Identify other programming languages • Plan a program with flowcharts, pseudocode, and hierarchy charts • Invoke VB.net and place controls on a form • Set properties for the controls • Create event procedures • Construct formulas for the events with arithmetic operations • Distinguish between events, procedures and functions • Solve basic problems with procedures and functions • Use relational and logical operators to create a conditional statement • Use If and Case statements • Differentiate between the looping structures • Analyze problems and solve using Do While, For Next, 	<ul style="list-style-type: none"> • Participate in classroom activities demonstrating knowledge of key visual basic concepts. • Recall and practice key concepts and techniques by completing assigned homework problems. • Complete objective tests demonstrating mastery of concepts and process skills. • Summarize understanding by completing programs that illustrate mastery of concepts. 	<ul style="list-style-type: none"> • Construct appropriate user interfaces for simple programs, and design systems with minimal complexity and maximal functionality. • Analyze and construct efficient and effective algorithms and translate to appropriate control structures in visual basic. • Effectively use software development tools including libraries, compilers, editors, linkers and debuggers. 		

	<p>and Do Until loops</p> <ul style="list-style-type: none">• Create programs that implement all of the above				
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