

Course Outcome Guide (COG)

Approved 13 September 2012

Course:	CSCI 174 – Intermediate C++/Visual C++	Credits:	3	Instructor:	TBD
Course Description:	Intermediate-level programming in the C++/Visual C++ language.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<p>Basic concepts of programming language</p> <p>Functions</p> <p>Arrays</p> <p>STL strings</p> <p>Structures</p> <p>Compilers</p> <p>Pseudocode</p> <p>Debugging tools</p>	<p>Designs will demonstrate the use of structured and modular design principles.</p> <p>The implementations will demonstrate the use of a variety of basic components including alternation and repetition; modular programming; primitive and structured data types; interactive and file-based I/O.</p> <p>Test plans will include test cases demonstrating both black and glass box testing strategies.</p> <p>Project work will involve peer review.</p>	<p>*Participate in class discussions and activities demonstrating knowledge of subject matter.</p> <p>*Complete examinations demonstrating acceptable skill level of concept and process.</p> <p>*Complete textbook readings, questions and problems (both individually and collaboratively) demonstrating acceptable skill levels of concept and process.</p> <p>* Design, construct and test your final project.</p>	<p>The student will be able to design and implement Abstract Data Types using C++ classes.</p> <p>The student will be able to design and implement Abstract Data Types using C++ to write computer programs that use classic data structures and algorithms.</p>	<p>1.Mathematics-including numeration literacy and the knowledge and use of statistical and logical processes.</p> <p>2.Analytical-gathering, organizing, and evaluating information</p> <p>3.Analogical-using former knowledge to help comprehend and explain new situations</p> <p>4.Critical Thinking-the ability to identify ad define criteria, understand biases, and construct objective judgments.</p> <p>5.Problem solving-the ability to analyze situations and synthesize solutions.</p>	<p>1. Students will demonstrate effective communication skills.</p> <p>2. Students will use reasoning skills to analyze and solve problems.</p>