

**NORCO COLLEGE
SLO to PLO MATRIX**

PLOs

Create structured and Object code in C++ for business, gaming, mathematical and scientific problems by identifying the information input requirements, synthesizing the algorithmic steps needed to transform the data input into the required output information, and organizing the output format to facilitate user communication.

Using C++ libraries create and run C++ programs that incorporate the following:

- o Multiprocessors
- o Multimedia
- o ODBC
- o SQL
- o Establish client/server relationship

OR Using C++ libraries create and run C++ programs that incorporate data structures.

CERTIFICATE/PROGRAM: C++ Programming NCE803				
COURSE: CIS/CSC-5: Fundamentals of Programming Logic using C++				
SLO 1	Create computer programs in C++ using the principles of structured programming.	I		
SLO 2	Apply the principles of logical programming concepts to develop specific solutions for gaming, business, scientific and mathematics problems.	I		
SLO 3	Identify the information input requirements, synthesize the algorithmic steps needed to transform the data input into the required output information, and organize the output format to facilitate user communication.	I		
SLO 4	Demonstrate the use of the C++ IDE and libraries.	I		
COURSE: CIS/CSC-17A: C++ Programming: Objects				
SLO 1	Analyze and understand the Object-Oriented C++ environment.	I, D	I	
SLO 2	Apply theoretical gaming, business, scientific, and mathematical concepts in writing and executing programs in the C++ language using Object-Oriented programming methodology.	I, D	I	
COURSE: CIS/CSC-17B: C++ Programming: Advanced Objects				
SLO 1	Write medium to large C++ programs individually and as part of a programming team effort.	I, D, M	I, D	I
SLO 2	Create programs that run in a multiprocessor environment such as but not limited to multimedia components.	I,D,M	I,D	
SLO 3	Use C++ database connectivity “ODBC” with basic SQL to maintain and update records.	I,D,M	I, D, M	I

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COURSE:	CIS/CSC-17C: C++ Programming: Data Structures	<p>Create structured and Object code in C++ for business, gaming, mathematical and scientific problems by identifying the information input requirements, synthesizing the algorithmic steps needed to transform the data input into the required output information, and organizing the output format to facilitate user communication.</p> <p>Using C++ libraries create and run C++ programs that incorporate the following:</p> <ul style="list-style-type: none"> o Multiprocessors o Multimedia o ODBC o SQL o Establish client/server relationship <p>OR Using C++ libraries create and run C++ programs that incorporate data structures.</p>		
SLO 1	Analyze and understand the use of data structures in the development of algorithms.	I,D,M	I,D,M	I,D,M
SLO 2	Design and create C++ programs using stacks, trees, queues, lists and trees.	I,D,M	I,D,M	I,D,M
SLO 3	Apply practical business processes, theoretical scientific, and mathematical concepts to write and execute computer programs in the C++ language using data structures.	I,D,M	I,D,M	I,D,M