

LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:

This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore <http://www.labette.edu/bookstore> for the required texts for this class.

COURSE NUMBER: COMP 135

COURSE TITLE: C++ PROGRAMMING

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Computer Science

DIVISION: General Education

PREREQUISITE: COMP 138 Visual Basic Programming

COURSE DESCRIPTION:

An introduction to C++ programming using structured programming and object oriented design.

COURSE OUTCOMES AND COMPETENCIES:

Students who successfully complete this course will be able to:

1. The student will be able identify computer components and the first steps in creating a C++ program.

- Explain the history of computer languages
- Recognize the different computer component parts
- Apply control structures to an application
- Build an algorithm

2. The student will be able to identify the programming basics and build an application using the different types of variables and functions.

- Demonstrate the use of Variables and constants
- Demonstrate the input and output methods
- Explain the process of program construction
- Explain the usage for implementing value-returning functions

3. The student will be able to develop a program using the different types of selection structures.

- Explain the use of a void function
- Implement selection structures
- Use multiple-path selection structures
- Use pretest and posttest loops

4. The student will be able to develop programs using object oriented structures.

- Implementing an object-oriented program
- Write and read sequential access files
- Create and implement arrays
- Implement database access