

Bossier Parish Community  
College  
Master Syllabus

**Course Prefix and Number:** CTEC 113

**Credit Hours:** 3-3-0

**Course Title:** Introduction to C++ Programming

**Course Prerequisites:** CTEC 102

**Textbook(s):** None

**Course Description:** This course introduces computer programming using the C++ programming language. Topics include input/output operations, decision structures, looping statements, functions, and file operations. Upon completion, students should be able to design, code, debug, test, and document programs using techniques of good programming style.

**Learning Outcomes:**

At the end of this course, the student will:

- A. identify elements of the C++ language;
- B. write programs using selection and repetition structure;
- C. write programs using functions; and
- D. write programs that read and write files.

To achieve the learning outcomes the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. create, build, and execute a C++ program (A);
2. describe different types of variables and constants (A);
3. select an appropriate name, data type, and initial value for a memory location (A);
4. assign values to variables (A);
5. write code that performs arithmetic operations (A);
6. write code that uses the if and if/else forms of the selection structure (B);
7. write code that uses comparison operators and logical operators (B);
8. write code that uses the switch form of the selection structure (B);
9. write code that uses while, for, and do while statements (B);
10. describe the basic of functions and parameter passing between functions (C);
11. write programs that use functions and pass arguments to and from functions (C); and
12. write programs that read from files and write to files (D).

**Course Requirements:**

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.
- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

Revised: 3/30/2023

**Course Grading Scale:**

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 - 59

**Attendance Policy:**

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

**Course Fees:** This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

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Coordinator for SECTION 504 AND ADA

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