

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:

1. A student must successfully complete the course with an average of 70% on assessments of the above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = 0 - 59

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

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.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

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