Course Prefix and Number: CIT 213
Credit Hours: 3-3-0

Course Title: Advanced C++ Programming

Course Prerequisites: CIT 113

Textbook(s): None.

Course Description: This course continues to build computer programming concepts using the C++ programming language. Topics include arrays, pointer variables, string manipulation, classes, and object oriented programming concepts. Upon completion, students should be able to design, code, debug, test, and document programs using advanced features.

Learning Outcomes:
At the end of this course, the student will:
  A. write programs that use array;
  B. write programs that use dynamic memory addressing;
  C. write programs that manipulate characters and strings; and
  D. write programs using object oriented methods.

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. write code that declares and initializes a one-dimensional array (A);
  2. write a code that manipulates a one-dimensional array (A);
  3. describe the use of pointer variables in programs (B);
  4. write programs that use pointers as arguments to functions (B);
  5. write programs that search and change the values of character data in strings (C);
  6. write programs that perform conversion between strings and numeric data types (C);
  7. describe encapsulation, inheritance, and polymorphism (D);
  8. write programs that create and use classes (D); and
  9. write programs that implement class inheritance structures (D).

Course Requirements:
  1. A student must successfully complete the course with an average of 70% or 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:
  90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
0 – 59 = F

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 fee for supplemental materials.

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