Course Prefix and Number: CIT 102
Credit Hours: 3-3-0

Course Title: Problem Solving and Programming Techniques

Course Prerequisites: None

Textbook(s): None

Course Description: This course is an introduction to program development using various problem-solving techniques. Emphasis is placed on using algorithms and pseudocode to design programs. Various control structures used in computer programming are also discussed.

Learning Outcomes:
At the end of this course, the student will:
   A. write programs which have input, processing, and output;
   B. write programs which have Boolean logic and decision structures;
   C. write programs which have repetition structures;
   D. write programs using simple functions; and
   E. write essays responding to contemporary issues in computing.

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. design and write programs which have input/output (A);
2. design and write program solutions for mathematical operations and logic (A);
3. design and write programs using if statements, if-else statements, and nested if-else statements (B);
4. design and write programs using Boolean expressions, relational, and logical operators (B);
5. design and write programs using while loops, condition-controlled loops (C);
6. design and write programs using for loops, nested loops (C);
7. design and write programs which use functions and arguments (D); and
8. read online resources and write essays responding to contemporary issues in computing (E).

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](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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