

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CTEC 150

Credit Hours: 3-3-0

Course Title: Introduction to Programming with Java

Course Prerequisites: CTEC 102

Textbook(s): Lewis and Loftus. Java Software Solutions, 9th edition. Pearson. ISBN: 9780134462028

Software: Bundle of Java SE and NetBeans

Course Description: The design, coding, testing, and documenting of programs in a specific high-level object-oriented programming language using techniques of good programming style. The programming concepts emphasized include data types, control structures, procedural abstraction, decomposition, encapsulation, inheritance, polymorphism, software reuse, and basic algorithms.

Learning Outcomes:

At the end of this course, the student will:

- A. develop structures to represent objects and the algorithms to perform operations;
- B. design classes that serve as a program modules or packages;
- C. demonstrate basic testing and debugging techniques; and
- D. understand and demonstrate the concepts of object-oriented design, polymorphism, information hiding, and inheritance.

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. implement methods, classes and objects (B);
2. identify input, output, conditionals, loops and methods, scope, comments, and programming style (A);
3. explain the basics of class files and the relationship between each (B);
4. explain and demonstrate the basics of debugging (C);
5. implement polymorphism (D); and
6. implement inheritance (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:

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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