Course Prefix and Number: CIT 151  
Credit Hours: 3-3-0

Course Title: Advanced JAVA Programming

Course Prerequisites: CIT 150


Software: Bundle of Java SE and Net Beans

Course Description: This course is a continuation of CIT 150 and progresses to discuss object-oriented programming concepts using Java. In this course, students learn about arrays, implementing classes and objects, class relationships, and GUI Programming.

Learning Outcomes:
At the end of this course, the student will:
A. describe object oriented programming concepts using Java;
B. write programs using arrays to store data; and
C. write programs using the Java Graphical User Interface libraries.

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. apply aggregation (A);
2. describe inheritance and polymorphism (A);
3. describe exception handling and use try and catch blocks (A);
4. implement searching and sorting applications in arrays (B);
5. implement two dimensional arrays of objects (B);
6. identify type details and alternate coding mechanisms (B);
7. identify the basics of GUI Programming (C); and
8. implement GUI programming component layout and additional GUI components (C).

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

Revised: 04/03/2017
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.

**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.

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