Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CTEC 260   **Credit Hours:** 3-3-0

Course Title: Interactive Program Design

Course Prerequisite: CTEC 151

Required Textbook: None

Course Description: This course is an introduction to the design of programs that involve real-time user interaction with an emphasis graphical computer game design. Topics in the course will include displaying graphics, event management, program timing, maintaining program state, and game design strategy. There will also be a focus on the use of the standard Java graphical user interface (GUI) libraries.

Learning Outcomes:
At the end of this course, the student will:
- A. create a graphical interactive program using Java;
- B. implement methods that manage user input in real-time;
- C. design methods that maintain the state of the program while it is running; and
- D. create program operations based upon a defined strategy.

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 a user interface using Java graphical user interface libraries (A);
2. design and create graphical objects that can move in the user interface (A);
3. implement event handlers that respond to user input (B);
4. implement timed methods that move objects based upon program state (C);
5. design algorithms to maintain the state of program objects in real-time (C); and
6. design and implement a program strategy based upon a set of objectives (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

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.

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