Course Prefix and Number: CTEC 270   **Credit Hours:** 3-3-0

Course Title: Relational Database Coding

Course Prerequisites: CTEC 102

Textbook(s): Bryan Syverson and Joel Murach. <u>Murach's SQL Server 2016 for Developers</u>, 1st edition. Mike Murach and Associates, 2016. ISBN: 9781890774967

Software: Microsoft SQL Server 2016 Express

Course Description: This course covers the fundamentals of database management systems, in particular, relational database systems. The course also teaches students how to use SQL to create, maintain, store, retrieve, and manipulate data.

Learning Outcomes:
At the end of this course, the student will:
- A. use the Management Studio;
- B. execute data retrieval and manipulation in databases; and
- C. design and implement Relational Database Systems.

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. manage the database files (A);
2. work with queries (A);
3. view and modify databases (A);
4. create, modify and query tables using SQL (B);
5. insert, update and delete data using SQL (B);
6. code summary queries, subqueries in SQL (B);
7. use functions in SQL (B);
8. design a relational DBMS (C); and
9. create and maintain databases, tables and sequences with SQL statements (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:

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.

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COORDINATOR FOR SECTION 504 AND ADA
Angie Cao, Student and Disability Services Specialist
Disability Services, F-254
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6511
Email: acao@bpcc.edu
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator
Teri Bashara, Director of Human Resources
Human Resources Office, A-105
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6056
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.