Course Prefix and Number: CTEC 290   **Credit Hours:** 3-3-0

Course Title: System Analysis and Design

Course Prerequisites: 15 CTEC hours earned

Textbook(s): Connect 3P Inclusive Access Master Online Access for Management Information Systems, 1st ed. (2022), Tedmon; McGraw-Hill ISBN: 9781265068288

Course Description: Analysis and design in a business information context with emphasis on tools for analysis, planning, decision making, and system design. Practical applications in design and development of systems using "real world" case studies.

Learning Outcomes:
At the end of this course the student will:

    A. plan a new system or evaluate an existing system;
    B. analyze system requirements;
    C. design the proposed systems;
    D. discuss implementation of new or changed systems; and
    E. explain supporting and securing a 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. analyze real-world business cases (A);
2. explain project planning, scheduling, monitoring, and reporting (A);
3. compare requirements for data, process, and object modeling (B);
4. prepare a systems requirement document (B);
5. build user interface and data design of systems (C);
6. prepare and present the systems desgin specification document (C);
7. create program, system, operations, and user documentation (D);
8. develop training plans for various user groups (D);
9. research the type of system monitoring and maintenance (E); and
10. research the different levels of system security (E).

Course Requirements:
1. Achieve a course average of 70% or above.
2. Students are expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension.
3. Students must have access to a Windows computer, Microsoft Office 2016, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.

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://catalog.bpcc.edu/content.php?catoid=5&navoid=369

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.

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