# 8/15/2020

# brcc keystone logo

Baton Rouge Community College

*Academic Affairs Master Syllabus*

Date Approved: 2 September 2020

Term and Year of Implementation: Fall 2020

**Course Title:** Systems Analysis and Design

**BRCC Course Rubric:** CSCI 2783

**Previous Course Rubric**:

**Lecture Hours per week-Lab Hours per week-Credit Hours**: 3-0-3

**Per semester: Lecture Hours-Lab Hours-Instructional Contact Hours**: 45-0-45

**Louisiana Common Course Number:**

**CIP Code:** 11.0501

**Course Description:** Introduces some of the issues, processes, and techniques associated with the systems development life cycle (SDLC). This course provides students the skills to identify business problems that may be solved with technology-based solutions. Focuses primarily on business and process analysis, and implementation issues.

**Prerequisites:** CSCI 1943, CSCI 1952, CSCI 1823 and ENGL 1013 with a grade of "C" or better

**Co-requisites:** None

**Suggested Enrollment Cap:** 30

**Learning Outcomes.** *Upon successful completion of this course, the students will be able to:*

1. Identify various software design methodologies.

2. Collect systems requirements.

3. Complete a systems analysis project for a specific client by creatively applying methodologies, standards, and tools for data acquisition and documentation.

**Assessment Measures.** Assessment of all learning outcomes will be measured using the following methods:

1. Instructor prepared quizzes, tests, and final exam

2. Homework assignments

3. Group/individual project

4. Oral presentation

**Information to be included on the Instructor’s Course Syllabi:**

* ***Disability Statement*:** Baton Rouge Community College seeks to meet the needs of its students in many ways. See the Office of Disability Services to receive suggestions for disability statements that should be included in each syllabus.
* ***Grading:*** The College grading policy should be included in the course syllabus. Any special practices should also go here. This should include the instructor’s and/or the department’s policy for make-up work. For example in a speech course, “Speeches not given on due date will receive no grade higher than a sixty” or “Make-up work will not be accepted after the last day of class”.
* ***Attendance Policy*:** Include the overall attendance policy of the college. Instructors may want to add additional information in individual syllabi to meet the needs of their courses.
* ***General Policies*:** Instructors’ policy on the use of things such as beepers and cell phones and/or hand held programmable calculators should be covered in this section.
* ***Cheating and Plagiarism*:** This must be included in all syllabi and should include the penalties for incidents in a given class. Students should have a clear idea of what constitutes cheating in a given course.
* ***Safety Concerns:*** In some courses, this may be a major issue. For example, “No student will be allowed in the lab without safety glasses”. General statements such as, “Items that may be harmful to one’s self or others should not be brought to class”.
* ***Library/ Learning Resources:*** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

**Expanded Course Outline:**

I. The Foundation for Systems Development

a. The Systems Development Environment

b. The Origins of Software

c. Managing the Information Systems Project

II. Planning

a. Identifying Systems Development Projects

b. Selecting Systems Development Projects

c. Initiating and Planning Systems Development Projects

III. Analysis

a. Determining System Requirements

b. Structuring Process Requirements

c. Structuring System Data Requirements

IV. Design

a. Designing Databases

b. Designing User Interfaces and Dialogues

V. Implementation and Maintenance

a. Project Management

b. System Implementation

c. Maintaining Information Systems