CIS 230 Systems Analysis and Design 3 cr

Contact: Aloysis Nagbe anagbe@rcbc.edu

Co-requisite(s): . **Prerequisite(s)**: CIS132, or CIS 139 or , CSE 110 or permission
Co-requisite/Prerequisite:

Course description (indicate lab information): This course covers details analysis of the Systems Development Life Cycle (SDLC) from a business process perspective. Emphasis is placed on analyses of business cases and design of basic database systems by incorporating problem-solving techniques and project management, development and implementation of business computer information systems. The course also utilizes hands-on team project to demonstrate how business systems are developed in the real world. The course provides skills in system development and management of system development projects.

Course will be offered: ☒ **Fall** ☒ **Spring** ☒ **Summer**

Proposed Course Fee (if known):$30

Relationship to Curriculum: Choose an item.

Sem/yr course will first be offered: Fall 2020
Default Course Capacity: Click or tap here to enter text.

Minimum Enrollment (per course) Click or tap here to enter text.

Instructor Consent Required for Registration: No

Textbook: Systems Analysis and Design 12th Edition Shelly Cashman Series by Scott Tilley: ISBN-13: 9780357117811

Reason for adding this course: This course is designed to fulfil one of the recommendations of the 2019 Management Information Systems program review. The course will focus on utilizing the Systems Development Life Cycle (SDLC to teach students concepts related to different types of information systems. All the materials covered in this course will prepare graduates to perform in groups/teams and to manage large scale projects. In addition, this course will provide students the skills needed to learn project management, communication, and problem-solving, which are the requirements of the IT career fields.

Complete this table:

Instructional Mode	Number of Credits	Number of Contact Hours
Lecture	2	2
Laboratory	1	2
Studio/Performance		
Clinical/Practicum/Co-Op/Internship/Field Study		

Credit Hours Distribution (i.e. 2/2/0):

Has this course been offered experimentally? Choose an item.

If no, **estimate initial enrollment**: Click or tap here to enter text.

If yes, complete this table.

Offering	*Course number*	*Semester & Year*	*Enrollment*
First:			
Second:			

***If other colleges and universities offer this course, complete this table. Give New Jersey data, if available*:**

College/University	*Course number/name*	*Contacted about course?*
Click or tap here to enter text.		
Click or tap here to enter text.		
Click or tap here to enter text.		

Course Learning Outcomes:

Course Learning Outcomes
At the completion of this, students should be able to:
Explain concepts relating to different types of information systems
Summarize the purpose and activities of the System Analysis & Design phrases
Use current System Analysis & Design tools to show graphically the system processes and the flow of events and data in a business system.
Design and create effective User Interface including Webpages/forms
Design Logical Databases to learn about model system entities and data stores
Demonstrate the technical and communication skills required to develop a system proposal.
Demonstrate project management, communication, and problem-solving skills required for the design, development, and implementation of information systems.

Core Course Content:

Core Course Content
Introduction to Systems Analysis and Design
Analyzing the Business Case
Managing System Projects
Requirements Engineering
Object Modeling
Development Strategies
User Interface Design
Data Design
System Architecture
Managing Systems Implementation
Managing Systems Support and Security