

# Part 2

# Department Master Syllabus

**Camden County College**

**Blackwood, New Jersey**

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| **Course Number:**  CIS - 237 | | **Course Title:**  Relational Database Concepts | | | |
| **Department/Program:** Computer Information Systems | | | | | |
| **Date of Review:** Click here to select a month. | |  | | | |
| (This Department Master Syllabus has been examined by the program/department faculty members and it is decided that no revision is necessary at this time.) | | | | | |
| **Date of Revision:** December | | | | 2021 | |
| (This Department Master Syllabus has been examined by the program/department faculty members and it is decided a change requiring a revision is necessary at this time.) | | | | | |
| N.B. A change to the course materials alone (textbooks and/or supplementary materials) may not constitute a revision. Any other change to the items listed below on this form is considered a revision and requires approval by the department/program faculty at a department/program meeting and by the division at a Chairs and Coordinator meeting. | | | | | |
| **Credits:** 3 | | | | | |
| **Contact Hours** | **Lecture:** 3 | | **Lab:** 0 | | **Other:** 0 |
| Prerequisites: None | | | | | |
| Co-requisites: None | | | | | |
| Course Description: In this course, the student will study the theory of Structured Query Language (SQL) and the Relational Database architecture and technologies. This model and design tools will be exemplified by the use of the MS Sequel Server System and its developer’s tools. This course is taught in a room with computers to allow the students to benefit by being able to interact with the material, however, there are no graded or mandatory student computer exercises required during the session. | | | | | |
| **Student Learning Outcomes (SLOs)**  Course specific student learning outcomes  Upon completion of this course the student will be able to:   1. Analyze the theory of Relational Database systems as assessed by tests, class participation, projects, homework assignments, etc. 2. Interpret the relational database design (Localize, LAN, and Internet) as assessed by tests, class participation, projects, homework assignments, etc. 3. Apply the SQL language concepts as assessed by tests, class participation, projects, homework assignments, etc. 4. Employ database objects e.g. tables, reports, queries, forms, views, triggers as assessed by tests, class participation, projects, homework assignments, etc. 5. Evaluate practices of database security and backups as assessed by tests, class participation, projects, homework assignments, etc.   As assessed by:  Laboratory assignments, tests, class participation, projects, homework assignments, etc. | | | | | |
| **General Education Student Learning Outcomes**  If this course has applied for General Education Elective Status the general education student learning outcomes listed below must exactly match those the sponsor has identified on the General Education Request form.  General Education SLOs:  N/A  As assessed by:  N.A | | | | | |
| **Program Learning Outcomes**  List all course level student learning outcomes that interconnect to a particular program learning outcome.   1. Analyze the theory of Relational Database systems as assessed by tests, class participation, projects, homework assignments, etc. 2. Interpret the relational database design (Localize, LAN, and Internet) as assessed by tests, class participation, projects, homework assignments, etc. 3. Apply the SQL language concepts as assessed by tests, class participation, projects, homework assignments, etc. 4. Employ database objects e.g. tables, reports, queries, forms, views, triggers as assessed by tests, class participation, projects, homework assignments, etc. 5. Evaluate practices of database security and backups as assessed by tests, class participation, projects, homework assignments, etc.   The Computer Information Systems Degree Program Learning Objectives of:   1. Perform fundamental skills of business, programming, and   application software in a business/organizational computing   environment are meet by the SLO’s 1,2,3,4,5 2. Analyze and design information systems and database  solutions to achieve business/organizational goals are meet by the SLO’s 1,2,3,4,5 3. Implement a designed solution to solve business/organization  information systems problems using state of the art  programming techniques and applications software are meet by the SLO’s 1,2,3,4,5 4. Present technical solutions effectively are meet by the SLO’s 1,2,3,4,5 | | | | | |
| Describe the assessment of the interconnected program learning outcome(s).  The above Computer Information Systems PLO’s will be assessed by tests, class participation, projects, homework assignments, etc. on the above SLO’s identified for each outcome.  **Course Outline:**   1. General introduction to Relational Databases. 2. Database Management System environment. 3. Advantages of a Relational Database. 4. SQL definition and history. 5. Advantages of SQL 6. Security and backup | | | | | |
| **Course Activities:**    The classroom activities will include formal and informal lectures where new material and assigned problems will be explained. Techniques will be demonstrated with use of a projection system. Students will have the opportunity to contribute to the discussion and to ask questions about the material. In addition to tutorials, students are expected to complete case studies relating to the covered material outside of the regularly scheduled classroom hours. | | | | | |
| **Course Materials:**  Textbook(s): This information will be provided by the instructor.  Supplemental Materials: This information will be provided by the instructor.  Software Licenses: NA  Computers: Existing Computer classrooms will be used provided through Perkins. | | | | | |
| **Course Assessment Plan**  How often and by what means will the effectiveness of this course as part of the curriculum be assessed?    Consistent with the College’s assessment methods in place, the course will be assessed on a rotating schedule with other courses in the Computer Systems Information Systems Programs. Students will be evaluated on the degree to which the student learning outcomes are achieved. A variety of methods may be used such as class participation, problem solving assignments, projects, homework, quizzes, research activities, and/or discussions. | | | | | |