



# Department Master Syllabus

**Camden County College**

**Blackwood, New Jersey**

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| **Course Number:**  CIS-103 | | **Course Title:**  Database Management | | | |
| **Department/Program:** Computer Information Systems | | | | | |
| **Date of Review:** Click here to select a month. | | Click here to select a year. | | | |
| (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:** October | | | | 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: NA | | | | | |
| Course Description: This course is designed for students who will need to use databases in their career. It is a requirement for many computer fields, business fields, or related areas. Students will learn to use a popular relational database management system. Basic database concepts will be introduced. Students learn how to plan, create and maintain databases. Other topics include: queries, customized forms, reports and introduction to user interface design, macros and a database programming language. SQL will be introduced as well as elementary database design concepts. This course is taught in a room with computers. Students benefit by interacting with the lecture material. However, there are no graded or mandatory student computer exercises required during the class lecture. All hands-on assignments are completed outside of class. | | | | | |
| **Student Learning Outcomes (SLOs)**  Course specific student learning outcomes  Upon completion of this course the student will be able to:  Upon completion of this course, the student will be able to:   1. **Design and create** a computerized database with associated tables as assessed by class projects and homework assignments 2. **Integrate design modifications** into the original design as assessed by tests, class participation, projects, homework assignments      1. **Create queries** using the application query tool as assessed by tests, class participation, projects, homework assignments      1. **Design and write macros** as assessed by test, class participation, projects, homework assignments 2. **Design and create** data entry forms as assessed by tests, class participation, projects, homework assignments      1. **Design and create** an application graphical user interface (GUI) as assessed by tests, class participation, projects and homework assignments 2. **Design and create** user reports as assessed by tests, class participation, projects and homework assignments   As assessed by:  Computer 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.  **Design and create** a computerized database with associated tables as assessed by class projects and homework assignments  **Integrate design modifications** into the original design as assessed by tests, class participation, projects, homework assignments  **Create queries** using the application query tool as assessed by tests, class participation, projects, homework assignments  **Design and write macros** as assessed by test, class participation, projects, homework assignments  **Design and create** data entry forms as assessed by tests, class participation, projects, homework assignments  **Design and create** an application graphical user interface (GUI) as assessed by tests, class participation, projects and homework assignments  **Design and create** user reports as assessed by tests, class participation, projects and homework assignments  Describe the assessment of the interconnected program learning outcome(s).  The student learning outcomes of this course provides the skills needed to meet the program learning objectives of:   * Design, develop, create and run the queries and reports  needed by end users or management teams. * Monitor, investigate, correct, and prevent data quality  problems. * Create and manage a project using project management tools | | | | | |
| **Course Outline:**   * 1. Creating a Table   2. Maintaining a Table   3. Querying Database Tables   4. Relational Databases and Database Design   5. Designing Forms   6. Creating Reports   7. Advanced Queries and OLE Objects   8. Macros | | | | | |
| **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: Free through student email  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. | | | | | |