

**DELAWARE TECHNICAL & COMMUNITY COLLEGE  
COLLEGEWIDE COURSE SYLLABUS**

<b>CAMPUS:</b>	TERRY
<b>DEPARTMENT:</b>	Computer Information Systems
<b>COURSE NUMBER AND TITLE:</b>	CIS 118 – Intro to Relational Databases
<b>INSTRUCTOR NAME:</b>	<b>TELEPHONE:</b> <b>E-MAIL:</b>
<b>PREREQUISITES:</b>	MAT 015 , RDG051, CIS107 OR CIS 120
<b>COREQUISITES:</b>	None
<b>COURSE HOURS AND CREDITS:</b>	4 Credits - 3 Hours Lecture/Week 2 Hours Lab/Week
<b>COURSE DESCRIPTION</b>	This course will focus on the fundamentals of relational databases to include concepts, terms, and design considerations. It will explore database entity relationships, data normalization, and data modeling. Students will learn structure, concepts, and methods to create, insert, and query data in the database.
<b>TEXT:</b>	Department approved textbook(s).
<b>MATERIALS:</b>	None
<b>METHOD OF INSTRUCTION:</b>	Lecture, demonstration, laboratory assignments and evaluations.
<b>MANUAL(S):</b>	None
<b>DISCLAIMER:</b>	None

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**College wide Core Course Performance Objectives**

The student will be able to:

1. Identify and describe basic database concepts, terms and benefits of database management systems. (CCC 2,6; PGC 4,7)
2. Apply normalization theory to optimize database design (CCC 2,7; PGC 4,7)
3. Create and modify a relational database (CCC2,6,7;; 1,2,7)
4. Understand the need and importance of database administration (CCC 1,4,6; PGC 7)

### **Measurable Performance objectives**

1. Explain the reasons for using a database.
  2. Explain the importance of keys, foreign keys and related terminology.
  3. Diagram table relationships.
  4. Apply normalization theory to optimize database design.
  5. Use basic SQL statements to create and modify database structures.
  6. Construct E-R models
  7. Transfer E-R data models into relational designs.
  8. Explain the need for concurrency control, security, backup and recovery.
  9. Explain the need for security and enumerate specific tasks for improving database security.
  10. Describe basic administrative and managerial DBA functions
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### **Evaluation Criteria/Policies**

1. Students will demonstrate proficiency on all measurable performance objectives at least to the 75% level to successfully complete the course.
2. The letter grade will be determined using the College Grading System:

#### Grade Point Value Explanation

A	92 - 100	Student meets the measurable objectives in an outstanding manner.
B	83 - 91	Student meets the measurable objectives in an above average manner.
C	75 - 82	Student meets the measurable objectives.
R	0 - 74	Student does not meet the measurable objectives.

3. In order to achieve the maximum benefit from this course of instruction, the student is responsible for attending scheduled classes, completing all readings and instructor handouts, and completing all computer assignments.
4. Each student is required to complete all programs (the programs will be evaluated using a published programming standard), assignments and examinations. Students who miss classes are expected to get missed assignments from the instructor and missed lecture notes from another student. Any student having difficulty will be expected to seek individual instructional aid from the instructor by appointment.
5. The instructor will announce the schedule for two written tests. Your final grade in this

course will be based on the following:

Two tests 50%

Assignments/projects 50%

**Students should refer to the Student Handbook for information on Academic Standing Policy, Academic Honesty Policy, Student Rights and Responsibilities and other policies relevant to their academic progress**