WILMINGTON UNIVERSITY
COLLEGE OF TECHNOLOGY
BASIC COURSE INFORMATION

COURSE TITLE: Database Fundamentals
COURSE NUMBER: WIS 210

All courses are open to students from all colleges. Only where a course is preceded by an introduction course is there a need to observe a prerequisite. However, students might benefit from prior knowledge on some of the courses, and this is given as the content found in your course catalogue by course code.

I. MAJOR INSTRUCTIONAL GOALS

During this course, students should improve their understanding of:

GOAL #1: Demonstrate comprehension of general database concepts.
Learning Outcomes - The student will:
A. Be able to define terms and concepts associated with database systems.
B. Understand the distinction between database systems and file systems; be able to describe the features and functions of a DBMS.
C. Be able to define terms and concepts associated with the physical database environment.

GOAL #2: Demonstrate comprehension of the relational model.
Learning Outcomes - The student will:
A. Be able to define terms and concepts associated with the relational model.
B. Be able to describe fundamental data anomalies and how they are resolved by the relational model.

GOAL #3: Demonstrate comprehension of Structured Query Language (SQL).
Learning Outcomes - The student will:
A. Be able to define terms and concepts associated with SQL.
B. Be able to create, modify, and remove database objects using SQL, including tables, views, indices, functions, stored procedures, and triggers.
C. Be able to manipulate data in the database using SQL, including the insertion, retrieval, update, and deletion of data.

GOAL #4: Demonstrate comprehension of database processing and administration.
Learning Outcomes - The student will:
A. Be able to define terms, concepts, and procedures around database security; be able to create users and assign permissions.
B. Understand concurrent transaction processing; be able to choose an appropriate level of transaction isolation for particular processing requests.
C. Be able to define terms, concepts, and procedures around database backup and recovery.
D. Be able to define terms, concepts, and procedures around database performance monitoring and tuning.
E. Be able to import and export data to and from a database system.
II. CLASS PARTICIPATION:

Students are expected to attend class and participate actively and in a positive way. Questions and relevant observations are encouraged and enrich the experience of the entire class.

Computers in the classrooms are intended to be used as tools to enhance the students’ learning experience. Instant messaging, gaming, emailing, and surfing the web are distractions to the student, the surrounding students, and the instructor and constitute inappropriate behavior. Students are ethically obliged to avoid these and similar practices.