

School of Computing and Information Sciences

Course Title: Introduction to Databases for All

Date: 10/18/19

Course Number: CGS 1540

Number of Credits: 3

Subject Area: Database	Subject Area Coordinator: Nagarajan Prabakar email: prabakar@cis.fiu.edu
Catalog Description: Introduction to database concepts including query languages, data organization and modeling, architecture, and security. Emphasis on relational databases with SQL. Not acceptable for CS majors.	
Textbook: "Access 2019 Bible" by Michael Alexander and Richard Kusleika Wiley (ISBN: 978-1119514756)	
References:	
Prerequisites Courses: None	
Corequisites Courses: None	

Type: Required

Course Outcomes:

1. Be familiar with DBMS and creating & maintaining a database
2. Master querying a database and analyzing the results
3. Master enhancing a table's design, and creating SQL queries
4. Master queries using SQL to retrieve data from multiple tables.
5. Master secure queries using SQL

School of Computing and Information Sciences
CGS 1540
Introduction to Databases for All

Course Outline

- Introduction to DBMS
- Introduction to ER Model
- Introduction to Access
- Queries
- Database Maintenance
- Introduction to Reports
- Introduction to SQL queries
- Aggregate functions in SQL
- Using SQL in a DBMS securely

Course Outcomes Emphasized in Laboratory Projects / Assignments

	Outcome	Number of Weeks
1	Create a database Outcomes: 1	1
2	Import data to a database, query database, and analyze results Outcomes: 2	2
3	Maintain a database Outcomes: 1,3	2
4	Create basic SQL queries Outcomes: 3,4	2
5	Create multi-table SQL queries Outcomes: 4	2
6	Create secure SQL queries Outcomes: 5	2