

School of Computing and Information Sciences

Course Title: Introduction to Databases for
Cybersecurity

Date: 10/9/19

Course Number: CGS 1XXX

Number of Credits: 3

Subject Area: Database	Subject Area Coordinator: Nagarajan Prabakar email: prabakar@cs.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: " New Perspectives on Microsoft Access 2013, Introductory" by Joseph J. Adamski, Kathy T. Finnegan, Sharon Scollard Cengage Learning, 2013 (ISBN: 1285099214)	
References:	
Prerequisites Courses: None	
Corequisites Courses: None	

Type: Required

Course Outcomes:

1. Master introduction to DBMS and creating and 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

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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