

## Knight Foundation School of Computing and Information Sciences

**Course Title:** Introduction to Databases for All

**Date:** 10/18/2019

**Course Number:** CGS 1540

**Number of Credits:** 3

<b>Subject Area:</b> Database	<b>Subject Area Coordinator:</b> Antonio Bajuelos <b>email:</b> abajuelo@fiu.edu
<b>Catalog Description:</b> 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.	
<b>Textbook:</b> "Access 2019 Bible" by Michael Alexander and Richard Kusleika, Wiley (ISBN: 978-1119514756)	
<b>References:</b>	
<b>Prerequisites Courses:</b> None	
<b>Corequisites Courses:</b> 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

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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**

	<b>Outcome</b>	<b>Number of Weeks</b>
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

**Assessment Plan for the Course & how Data in the Course are used to assess Program Outcomes**

Student and Instructor Course Outcome Surveys are administered at the conclusion of each offering, and are evaluated as described in the School's Assessment Plan:  
<https://abet.cs.fiu.edu/csassessment/>