



**Department of Computer Science and Engineering
University of Puerto Rico
Mayagüez Campus**

**Agenda for CIIC 4060/ICOM 5016 –
Introduction to Database Systems
Spring 2021 – Tuesdays and Thursdays**

The following is the tentative agenda for the topics to be covered in this course. This agenda might be revised as the semester progresses.

Lecture	Date	Topic	Reading
1	January 14	Syllabus, Introduction to the Course	Chap. 1
2	January 19	Mathematical background	Notes
3	January 21	E-R Model	Chap. 7
4	January 26	Relational Model & SQL	Chaps. 2-6
5	January 28		Notes
6	February 2	ER-Relational Mappings	Chap. 7
7	February 4	DB and Web Apps	Notes
8	February 9	REST APIs	Notes
9	February 11		
10	February 16	Joins & More SQL	Chaps. 3-5
11	February 18		
12	February 23	Advanced SQL	Chaps 4-5
13	February 25	Exam I	
14	March 2	Advanced SQL	
15	March 4	Stored Procedures	Notes
16	March 9	Database Integrity and Security	Chap. 4
17	March 11	Normalization	Chap. 5
18	March 16	Storage Organization	Chap. 10

Lecture	Date	Topic	Reading
19	March 18	RAID	Chap. 10
20	March 23	Buffer Management	Chap. 10
21	March 25	File and Record Structures	Chap. 10
*	March 29-April 2	Spring Break No Class	
22	April 6	Indexing	Chap. 11
23	April 13	Transaction Processing	Chap. 14
24	April 15		
25	April 20	Concurrency Control	Chap. 15
26	April 22	Exam II	
27	April 27	Crash Recovery	Chap. 16
28	April 29	Data Warehousing	Notes
29	May 4	Big Data	Notes
		Final Exam Scheduled by UPRM Registrar	