

## CSCI 585 Fall 2015 Course Syllabus

**Textbook:** “Database Systems”, by Coronel/Morris, ISBN:9781305425958

**Alternate Textbooks:** “Database System Concepts” by Silberschatz, Korth, and Sudarshan ; “Database Systems: The Complete Book” by Garcia-Molina, Ullman, and Widom; “Database Management Systems” by Ramakrishnan and Gehrke

### Planned Schedule

Week	Date	Topic	Reading (C &M)
1		Introduction Data Modeling	Chapter 1 Chapter 2
2, 3		Relational Model and E-R Relational Algebra (cont.) Basic SQL	Chapters 3 & 4 Chapters 3 & 4 Chapter 7
4		Advanced Data Modeling	Chapter 5
5		More SQL	Chapter 8
6		Normalization	Chapter 6
7		Review Exam I	
8, 9		Transaction Management Performance Tuning	Chapter 10 Chapter 11
9,10		Performance Tuning Distributed Databases	Chapter 11 Chapter 12
11		Database Security	Chapter 15
12,13		Databases and the Web Big Data Data Visualization	Paper (to be provided)
14		TBD Catch up	
15		Final Exam	