

School of Engineering Technology
COP4708: Applied Database I
Tentative Course Schedule

Topic	Date	Date Available	Date Due
Martin Luther King Holiday	Monday, Jan 18		
Introduction to COP4708	1 st Week Jan 19-22		
Ice Breaker		1/19	1/25
Introduction to Database and Database Management Systems (Ch1 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	2 nd Week Jan 25-29		
A1		1/28	2/2
The relational Model and Normalization (Ch3 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	3 rd Week Feb 1-5		
A2		2/4	2/10
Database Design Using Normalization (Ch4 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	4 th Week Feb 8-12		
PA1		2/11	2/17
Data Modeling and database Vulnerabilities (Ch5 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation) + (PPT, by Sushil Jajodia, <i>Beyond Reactive Management of Network Intrusions</i> and other related articles)	5 th Week Feb 15-19		
A3		2/18	2/23
Hashing and Encryption (Lu, Wenjun and et al., (2009) "Enabling Search Over Encrypted Multimedia Databases", Vol 7254)	6 th Week Feb 22-26		
Database Controls (Colombo, Pietro, Ferrari, Elena (2015), Efficient Enforcement of Action-Aware Purpose-Based Access Control within Relational Database Management Systems, IEEE). Also recommended for reading "Access Control Data Management Systems", by Elena Ferrari.	7 th Week Feb 29-March 4		
Midterm	March 3-7	3/3	3/7
PA2		3/3	3/9
Information Flow and Database Security Models (CISSP Certification All-in-One Exam Guide, Ch5 Security Models and Architecture. Chao-Hsien Chu, "Security Architecture and Design", PennState)	8 th week March 7-11		
Spring Break	9th Week March 14-18		
Transforming Data Models into Design (Ch6 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	10 th Week March 21-25		
A4		3/24	3/30
Introduction to Structured Query Language (Ch2 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation) Installing Oracle 10g Express Edition	11 th week March 28- April 1		
Withdrawal Deadline	April 8		
SQL for Database Construction (Ch7 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	12 th week April 4-8		
A5		4/7	4/13
Managing Database with Oracle (Power Point Presentation, from external resources)	13 th Week April 11-15		
Database Redesign (Ch8 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	14 th Week April 18-22		
PA3		4/21	4/26
Managing Multiuser Databases: Security issues and common DBMS Vulnerabilities (Ch5 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	15 th Week April 25-29		
Managing Multiuser Databases: Security issues and common DBMS Vulnerabilities (Ch5 Power Point Presentation, David M Kroenke, Database Processing Fundamentals, Design, and Implementation)	16 th Week May 2-6		
Final Exam covers all chapters	17th Week May 9- 13	5/9	5/13