

CmpE 226 – Weekly Schedule – Spring 2007

□ **Four major areas:**

Database Design	Relational DB	Current & Hot Trends	Merging Trends
Fact Finding Techniques (1 ½)	Relational Algebra (½)	Infinite Relational DB ½	Web Technology & DB (½)
ERM (1)	SQL: Manipulation (1)	Constraints DB ½	XML (½)
Traditional Class Diagram (1 ½)	SQL: Data Definition (1)	Spatiotemporal 1½	Data Warehousing Concepts and Design (1)
Stable Class Diagram (2 ½) – Reading only	SQL: Query Example (½)	Visualization & Animation (1 ½)	Data Mining (1)
Normalization (½)			
Special topics (TBD): Transaction Management ½ (5 requests) , Distributed DBMS 1 (15 requests), Query Optimization ½ , Spatiotemporal DB Applications 1, DB Security ½			

□ **Please note, this file will be updated periodically and must be checked weekly.**

W#	Topic & Reading Materials	Turn-in
1	<ul style="list-style-type: none"> □ Greensheet □ Introduction Game □ Submission Guidelines □ General Information □ Lecture 1: Infinite Relational Database (.ppt) □ Article: Paragon Corporation. What is a database and why do we have them? 2003. (.doc) <p>http://www.paragoncorporation.com/ArticleDetail.aspx?ArticleID=20</p>	
2	<ul style="list-style-type: none"> □ Lecture 2: Data Modeling Using Entity-Relationship Model (.ppt) □ Weekly Schedule – This File □ Due Dates □ Tutorial: Entity-Relationship Modeling Technique Notes (.doc) □ Article: Lansdale System. Entity Relationship Models (.pdf) □ Article: Understanding Entity Relationship Diagrams (.htm) □ Tutorial: Developing Entity Relationship Diagrams (.htm) □ Practice Problems 	February 05, 2007 is the last day of drop courses
3	<ul style="list-style-type: none"> □ Class Diagrams (.ppt) □ Notes: J.W. Schmidt. Class Diagrams in Analysis (.pdf) □ Talk about team project problem stmt □ Class Diagrams – Relationships (.ppt) 	February 12, 2007 is the last day to add courses

	<input type="checkbox"/> <u>Examples (.ppt)</u> <input type="checkbox"/> <u>Talk About: Practice Problems</u> <input type="checkbox"/> <u>Submit your contact info</u> <input type="checkbox"/> <u>Submit your team information</u>	FEB 15 th , 2007 by midnight FEB 15 th , 2007 by midnight
4	<input type="checkbox"/> <u>Sample of Class Diagrams (.ppt)</u> <input type="checkbox"/> <u>Compare ERDs and Class Diagrams</u> <input type="checkbox"/> <u>Tips and Heuristics</u> <input type="checkbox"/> <u>Practice Problems</u> <input type="checkbox"/> <u>Constraint Databases (.ppt)</u>	<input type="checkbox"/> Team Problem Statement Iteration <input type="checkbox"/> Finalizing the Course Website
5	<input type="checkbox"/> Normalization (.ppt) <input type="checkbox"/> Steps in Normalizing Databases (.doc) <input type="checkbox"/> Rules for Normalization (.doc) <input type="checkbox"/> Modeling for Normalizing (.doc) <input type="checkbox"/> Normalization: Example 0 (.doc) <input type="checkbox"/> Normalization: Example 1 (.doc) <input type="checkbox"/> Normalization: Example 2 (.doc) <input type="checkbox"/> Normalization: Example 3 (.doc) <input type="checkbox"/> Normalization: Example 4 (.doc) <input type="checkbox"/> Normalization: Example 5 (.doc)	<input type="checkbox"/> Solution: practical problems (PP1) <input type="checkbox"/> Team Problem Statement Submission <input type="checkbox"/> Signup for an Essay
6	<input type="checkbox"/> Relational Algebra & SQL (.ppt) <input type="checkbox"/> Structured Query Language (SQL) (.ppt) <input type="checkbox"/> Notes on RA (.doc) <input type="checkbox"/> Notes on SQL (.doc)	<input type="checkbox"/> Solution: practical problems (PP2 & PP3)
7	<input type="checkbox"/> Continue previous lecture <input type="checkbox"/> RA and SQL Examples (.doc)	<input type="checkbox"/> Solution: practical problems (PP4, PP5, & PP6)
8	<input type="checkbox"/> Constraints Database	<input type="checkbox"/> Solution: practical problems (PP7 & PP8) <input type="checkbox"/> First Project Submission <input type="checkbox"/> First Exam Overview
9	<input type="checkbox"/> Spatiotemporal Database <input type="checkbox"/> First Exam	<input type="checkbox"/> Solution: practical problems (PP7 & PP8) <input type="checkbox"/> First Exam
10	<input type="checkbox"/> Spring Recess – No Class	<input type="checkbox"/> NO CLASS
11	<input type="checkbox"/> Continue previous lecture <input type="checkbox"/> Data Visualization <input type="checkbox"/> Data Animation	<input type="checkbox"/> Solution: practical problems (PP9 & PP10)
12	<input type="checkbox"/> Web Technology <input type="checkbox"/> XML (.ppt) <input type="checkbox"/> On Spatial Database Integration (.doc) <input type="checkbox"/> XML and Database (.doc) <input type="checkbox"/> XML Structure for Existing Databases (.doc) <input type="checkbox"/> XML: Map DTD to Databases (.doc) <input type="checkbox"/> Exploration of XML in Databases (.doc)	<input type="checkbox"/> Solution: practical problems (PP11 & PP12) <input type="checkbox"/> Project #2 Submission
13	<input type="checkbox"/> Data Warehousing	
14	<input type="checkbox"/> Data Mining	<input type="checkbox"/> Solution: practical problems

		(PP13 & PP14) <input type="checkbox"/> Second Exam Overview
15	<input type="checkbox"/> Visualization & Animation <input type="checkbox"/> Security	<input type="checkbox"/> Project #3 Submission <input type="checkbox"/> Essay Submission <input type="checkbox"/> Second Exam
16	<input type="checkbox"/> Second Exam	<input type="checkbox"/>