

COSC 61 Winter 2025 Schedule - 2025-02-23 version						
Week	Notes #	Class Date	x-Hour	Topics	Reading chapter	Lab Out
						DUE
0	Data and information					Lab 0
	1	Mon, Jan 6		Why Databases?	1	
		Tue, Jan 7	x	-		
	2	Wed, Jan 8		Data Models	2	
	3	Fri, Jan 10		Intro to Relational Model	3	
1	Relational data models					12-Jan
	3	Mon, Jan 13		Relational Algebra / Relax	3 & notes	Lab 1
		Tue, Jan 14	x	MySQLWorkbench & CLI setup		
	4	Wed, Jan 15		E/R modeling	4	
	5	Fri, Jan 17		Advanced data modeling	5	
2	Normalization					19-Jan
		Mon, Jan 20		NO CLASS - MLK Day		Lab 2a
	6	Tue, Jan 21	x	Normalization	6	
	6	Wed, Jan 22		Normalization (continued)	6	
	7	Fri, Jan 24		Intro to SQL	7	
3	SQL					26-Jan
	7	Mon, Jan 27		SQL: creating databases, tables, & indexes	7	Lab 2b
		Tue, Jan 28	x	-		
	8	Wed, Jan 29		SQL: complex queries	7	
		Fri, Jan 31		NO CLASS - ccp away		
4	Advanced SQL and DB programming					2-Feb
		Mon, Feb 3		NO CLASS - ccp away		Lab 2c
	8	Tue, Feb 4	x	SQL basics wrap-up	78	
	9	Wed, Feb 5		SQL App Development	8	
	10,10a	Fri, Feb 7		Transactions / Concurrency	8	
5	Transactions, concurrency, & performance					9-Feb
	12,13	Mon, Feb 10		Indexing	10	😎
		Tue, Feb 11	x	-	10	
	12,13	Wed, Feb 12		Performance and tuning	11	
		Fri, Feb 14		SQL Challenge		
6	NOSQL					
	15,16	Mon, Feb 17		Big Data & NoSQL databases	14	Lab 3
	17	Tue, Feb 18	x	MongoDB Setup	notes	
	20	Wed, Feb 19		Thinking in documents	notes	
	21	Fri, Feb 21		CRUD	notes	
7	MongoDB concepts & practices					23-Feb
	24	Mon, Feb 24		Aggregation Pipelines	notes	Lab 4
		Tue, Feb 25	x			
	22	Wed, Feb 26		Schema design	notes	
	23	Fri, Feb 28		Indexes	notes	
8	MongoDB aggregations and resiliency					
		Mon, Mar 3		TBD	notes	7-Mar
		Tue, Mar 4	x			
	25	Wed, Mar 5		Replica sets	notes	
	26	Fri, Mar 7		Sharding	notes	
11 time period: MWF 11:30-12:35, Tu 12:15-13:05						