

TENTATIVE CLASS SCHEDULE⁶

<i>Week</i>	<i>Week Beginning...</i>	<i>Topic</i>	<i>Reading</i>
1	1/28	Introduction Data structures and file systems	DB: Appendix C
2	2/4	Introduction to C++ Real numbers (data types) vs. strings Iteration and decision making (selection) Files	C: Chap. 1, 2, 3, 4, 14
3	2/11	Functions Arrays Pointers and strings User-defined data types and tables	C: Chap. 5, 6, 7, 8, 9
4	2/18	Object-oriented Programming • Classes and objects • Manipulating objects • Friends and operator overloading • Inheritance	C: Chap. 10, 11, 12, 13
5	2/25	Object-oriented Programming (continuation)	
6	3/4	Introduction to database File-based systems vs. database systems Relational data model	DB: Chap. 1, 2, 3
7	3/11	Relational calculus and relational algebra SQL	DB: Chap. 4, 5
8	3/18*	SQL and Oracle 8i MIDTERM EXAM (due)	DB: Chap. 5, 6
9	3/25	Spring Break	
10	4/1	Database analysis and design techniques • ERD and EERD • Normalization	DB: Chap. 9, 10, 11, 12, 13

⁶Topics and chapters may be dropped when time does not permit their inclusion.



11	4/8	Normalization	DB: Chap. 13
12	4/15	Database planning and design • Conceptual database design • Logical database design	DB: Chap. 14, 15
13	4/22	Physical database design • Denormalization Monitoring and tuning	DB: Chap. 16, 17
14	4/29	Distributed database Object-oriented database	DB: Chap. 22, 23, 25, 26, 27
15	5/6	Data warehousing Data mining and OLAP	DB: Chap. 30, 31, 32
16	5/15*	<i>FINAL EXAM</i> (due)	

*Due date of the exam

DB: Database Systems: A Practical Approach to Design, Implementation and Management textbook

C: C++ for Business Programming textbook

