

## INLS 523\_001 Database Systems 1, Fall 2015

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**Official ILNS Description:** Design and implementation of database systems. Semantic modeling, relational database theory, including normalization, query construction, and SQL.

**Room/Time:** Manning 112: Tuesdays and Thursdays, 11:00am - 12:15pm

**Instructor:** Tom Bodenheimer - bodenhei at email dot unc dot edu

**Prerequisites:** INLS 161 (previously 261)

**Textbook:** *Fundamentals of Database Systems, Sixth Edition*, Elmasri & Navathe  
Addison-Wesley

### Course Objectives:

- Understand the basic concepts of databases, with emphasis on the relational model.
- Gain experience with both the theoretical and practical aspects of database design and implementation.
- Develop proficiency with entity-relationship modeling.
- Be able to weigh, discuss, and justify database design decisions.
- Learn how to use SQL to create, manipulate and query databases.
- Apply practical techniques for improving database design quality.
- Gain an understanding of important ideas for databases in the future.

Grading:	Undergraduate Grading	Range
	A	95-100
	A-	90-93
	B+	87-89
	B	84-86
	B-	80-83
	C+	77-79
	C	74-76
	C-	70-73
	D	60-69
	F	59 or below
	Graduate Grading	Range
	H	95-100
	P	80-94
	L	70-79
	F	69 or below

**Grades will NOT be rounded up.**

**Grade Components:**

Class participation

10% Includes attendance, in-class discussion, quizzes, and practice.

Take-home Final Exam

20% Comprehensive

Project 1 (Individual)

30% (multipart, more details TBD)

Project 2 (Individual)

20% Given ER diagram and data, create schema, develop and execute SQL from assignment guidelines.

Homeworks

20% (probably 4 or 5 assignments)

**Honor Code Policy:**

Chapel Hill has had a student-administered honor system and judicial system for over 100 years. Because academic honesty and the development and nurturing of trust and trustworthiness are important to all of us as individuals, and are encouraged and promoted by the honor system, this is a most significant University tradition. More information is available at <https://studentconduct.unc.edu/honor-system>.

The UNC Honor Code is in effect for all work in this course. Section II. B. of the "Instrument of Student Judicial Governance" gives examples of actions that constitute academic dishonesty: <https://studentconduct.unc.edu/sites/studentconduct.unc.edu/files/documents/Instrument.pdf>.

**Due Dates and Late Work:** Each assignment has a due date and time and includes instructions for submission. A late penalty of 5% per day will be applied unless prior arrangements have been made with the instructor. Assignments submitted more than 5 days after the due date will receive no credit and will not be graded.

**Requests for Extensions:** If you have a real problem submitting an assignment on time, please contact me before the due date. Getting a late start on an assignment does not count as a real problem. Any request for an extension must be made, preferably by email, at least 24 hours prior to the due date. If an emergency arises that prevents you from contacting me in advance, you must do so as soon as possible.