**CSCI 3287: Database and Information Systems**

**Summer 2016**

**Instructor:** CJ Herman

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**Office Hours:** TBD

**Class Time/Location:** M-F 12:45p-1:45pm / KOBL 308

**Description:**

This course provides an introduction to Relational Database Systems. This subject is broken down into three sections, 1) theory, 2) use, and 3) implementation. Topics for the course include:

**THEORY**

Relational Model of Data

Design Theory for Relational Databases

High-Level Database Models

**USE**

Algebraic and Logical Query Languages

The Database Language SQL

Constraints and Triggers

Views and Indexes

**IMPLEMENTATION**

Secondary Storage Management

Index Structures

Query Execution

The Query Compiler

Concurrency Control

Transaction Management

**Textbook:**

*Database Systems: The Complete Book, 2nd Edition*, Garcia-Molina, H., Ullman, J. D., and Widom, J.

**Course Website:**

Please enroll ASAP in the [Moodle](https://moodle.cs.colorado.edu/course/view.php?id=281) course web page. Nearly all your class interactions will be available through Moodle.

**Grading and Policies:**

50% Assignments/Quizzes

20% Midterm (June 24th)

30% Final (July 22nd)

Assignment of letter grades is made by the instructor at the end of the course based on your cumulative weighted percentage. The scale upon which this final assignment is made is A >= 90%, B >= 80%, C >= 70%, and D >= 60%. The instructor has discretion to modify this curve as needed. The instructor also has discretion to apply +’s and –‘s and to modify letter grades at their discretion for reasons other than course scores, e.g. violations of the honor code, class attendance and student participation and behaviors.

**Default Grading Policy:**

All work should be your own on all assignments unless otherwise indicated.

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