# CS 504-DL1/002 Principles of Data Management and Mining
# Fall 2021

**Class Time & Location**
DL1: Monday 4:30-7:10 PM Blackboard Collaborate Ultra
002: Wednesday 4:30-7:10 PM Horizon Hall 2009

**Textbooks**
(Both available in Safari Books)
Data Sciences for Business: What You Need to Know About Data Mining and Data-Analytic Thinking by Foster Provost and Tom Fawcett
NoSQL Distilled: A Brief Guide to the Emerging World of Polyglot Persistence by Pramod J. Sadalage and Martin Fowler

**Instructor**
Dr. Ping Deng
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Office hours: MW 3-4PM Blackboard Collaborate Ultra or by appointment

**Prerequisites**
Graduate Standing
Note: This course cannot be taken for credit by students of the MS CS, MS ISA, MS SWE, MS IS, CS PhD or IT PhD programs.

**Disability Accommodations**
If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services (ODS) at 993-2474, http://ods.gmu.edu . All academic accommodations must be arranged through the ODS.

**Honor Code Statement**
Please be familiar with the GMU Honor Code. In addition, the CS department has its own Honor Code policies. Any deviation from this is considered an Honor Code violation. All graded work must be your own. Any attempts at cheating will not be

tolerated, and will be turned in to the Honor Committee with significant penalty recommended.

## Grading Scale

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|---|---|
| A$^+$ | >98 |
| A | 92-98 |
| A$^-$ | 90-92 |
| B$^+$ | 88-90 |
| B | 82-88 |
| B$^-$ | 78-82 |
| C | 68-78 |
| F | <68 |

## Grading Weights

Quizzes: 20%
Projects: 40%
Midterm: 20%
Final exam: 20%

## Grading Policy

All projects must be submitted on Blackboard.
You have a budget of 3 late days which you can use as you wish for projects.
The lowest quiz score for the semester will be dropped.
If any extra credit is available, it might be available on specific quiz, exam or assignment, but not as an end-of-semester batch of extra work.
Grades will be changed only when a grading error has been made. All grade change requests are due **within a week** of the grade becoming available on Blackboard. After that week, the window to contest a grade has closed other than recording errors.
No make-up of exams or quizzes unless **previously** arranged with the instructor.

## Tentative Course Outline

Introduction to database management
ER & EER model
Relational data model and ER & EER to relational mapping
SQL
NoSQL

Midterm Exam
Introduction to data mining concepts
Classification
Clustering
Final Exam

**Helpful Comments**
Welcome to CS 504-DL1/002! This class is very interesting and helpful. However, a lot of material will be covered and many new concepts will be introduced. To get full benefit of the class, I would recommend you to work on the class materials regularly. For example, watch my pre-recorded videos before coming to class, participate in group exercises and discussions, review my slides after class, and start working on the assignments as soon as they are available on Blackboard. Plan to spend 10 hrs a week on this class. Good luck!