

CS 504 Principles of Data Management and Mining Fall 2018

Class Time & Location

Wednesday 4:30-7:10 PM Sandbridge Hall 107

Required 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

Wednesday 2-4PM 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.

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.

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.

Grading Policies

Quiz: 10%

Homework: 30%

Midterm: 30%

Final: 30%

No late work will be accepted.

Grades will be changed only when a grading error has been made. Negotiation is not appropriate.

There will be 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

Data warehouse and OLAP

Classification

Association analysis

Clustering

Final Exam

Helpful Comments

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 you have to work regularly. Read the textbooks and slides regularly and start working on the assignments soon after they are handed out. Plan to spend 10 hrs a week on this class doing assignments and reading.

Good luck, and welcome to CS 504!