CS 504 Principles of Data Management and Mining  
Spring 2019

**Class Time & Location**  
005: Monday 4:30-7:10PM Fairfax: Innovation Hall 208  
002: Wednesday 4:30-7:10 PM Fairfax: Innovation Hall 208

**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**  
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**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.

**Grading Policies**
- Quiz: 10%
- Homework: 30%
- Midterm: 30%
- Final: 30%

Homework will be submitted on BLACKBOARD.
You have a budget of 3 late days which you can use as you wish for homework.
The lowest quiz score for the semester will be dropped.
Grades will be changed only when a grading error has been made.
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
- 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 as soon as 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!