

CS565 Data Mining

Fall 2008

Instructor: Dr. Huanjing Wang
Office: TCCW 119
Office Hours: TR 7:30-9:30am, 1:45-2:15pm, F 8:00-10:00am, other times by e_mail appointment
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Reference Book: “Data Mining Concepts and Techniques” by Jiawei Han and Micheline Kamber, second edition, ISBN: 1-55860-901-6

“Data Mining Techniques” by Michael J. A. Berry and Gordon S. Linoff, second edition, ISBN: 0-471-47064-3.

Course Website <http://www.wku.edu/~huanjing.wang/cs565>

Course Objectives: To acquaint the student with the basic concepts of data mining and knowledge discovery. To explain the methodology and techniques for successful data mining.

Grade Computation:

Quiz	5%
Homework	30%
Mid-term exam	15%
Final exam	30%
Term project	15%
Class presentation	5%

Grading Policy: A: 90-100 B: 80-89 C: 70-79 D: 60-69 F: <60

Policies:

- Each student should work on the homework assignment independently, and hand-in the work on time. No late homework will be accepted.
- Students are expected to attend all the classes and fully participate in the class activities. You are responsible for all the work (e.g., quiz) done in the class that is missed.
- No make up will be given for exams under normal circumstances. If you can't attend the exam, you must get permission from the instructor first, AND you must have documented excuse.
- No food and drinks is permitted in classroom.
- No cell phone usage in the classroom. Phones should be on **OFF** position when you enter the classroom.

- Academic dishonesty will not be tolerated. All programming assignments will be checked for plagiarism using the MOSS system. MOSS information is available at <http://www.cs.berkeley.edu/~aiken/moss.html>.
- Copying from the internet and any other sources (such as senior students or classmates, etc.) is cheating
- Plagiarism and cheating will result in a zero for the course and will be reported to the Office of Judicial Affairs. Please read the following document: <http://www.wku.edu/handbook>

Course Topics:

- Introduction to Data Mining
- Data Preprocessing
- Data mining tasks
- Market basket analysis
- Memory-based reasoning
- Decision tree
- Automatic cluster detection
- Artificial neural networks
- Genetic algorithms
- Data warehousing

Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services in DUC A-200.