## **Data Mining Principles**

Dr. Huang

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Office Hours: Monday - Thursday: 9:55–10:55 am;12:20–2:00 pm; Tuesday, Thursday: 3:20 – 4:00 pm (appointment only)

Class: Monday, Wednesday (11:00 - 12:15), NAAB, Room 208

Prerequisites: CPS 5740 or CPS 3740. Students without prerequisite(s) must withdraw from the class.

7       3/2/2020 Mon       Associations and Correlations       11         3/4/2020 Wed       Mining Frequent Pattern       Ch 6       12         8       3/9/2020 Mon       3/9-15 Spring break       School closed         9       3/16/2020 Wed       3/9-15 Spring break       School closed         9       3/16/2020 Mon       Mining Frequent Pattern       Ch 6       13         10       3/23/2020 Wed       Working on internet data, text       HW #2 due by 3/23       14         10       3/23/2020 Mon       Continue, review for midterm 2       HW #3 start       15         11       3/30/2020 Wed       Classification: Basic Concepts       Ch 8       16         11       3/30/2020 Mon       Classification: Advanced methods       Ch 9       18         12       4/6/2020 Mon       Midterm #2       19       19         12       4/6/2020 Mon       Midterm #2       19       19         13       4/13/2020 Wed       Cluster Analysis       Ch 10       20         13       4/13/2020 Mon       Cluster Analysis       Ch 10       21         14       4/20/2020 Mon       Outliner Detection       Ch 12       HW #3 due by 4/20       22         14       4/22/2020 Wed	Week	Date	Topic	Reading	Assignment	
1/27/2020   Mon	1	1/20/2020 Mon	Martin Luther King Holiday		School closed	
1/29/2020   Wed   Introduction, visualization in PHP   Ch 1   3   2/3/2020   Mon   Getting to Know Your Data, SQL   Ch 2   4   4   2/10/2020   Med   SQL, aggregation and report   Ch 2   5   5   5   4   2/10/2020   Mon   Data Processing - text and image   Ch 3   Ch 3   HW #1 due by 2/16   7   7   2/2/2020   Wed   Continue, review for midterm #1   Ch 3   HW #1 due by 2/16   7   7   2/17/2020   Mon   President Day Holiday   School closed   President Day Holiday   School closed   HW #2 start   8   8   2/24/2020   Wed   Data base vs Data Warehouse   Ch 4   9   9   2/26/2020   Wed   Data Warehouse and OLAP   Ch 4   10   10   10   10   10   10   10		1/22/2020 Wed	Overview		HW #1 start	1
3	2	1/27/2020 Mon	Introduction, projects	Ch 1	Research start	2
2/5/2020   Wed   SQL, aggregation and report   Ch 2   5		1/29/2020 Wed	Introduction, visualization in PHP	Ch 1		3
4 2/10/2020 Mon Data Processing - text and image Ch 3 6 2/12/2020 Wed Continue, review for midterm #1 Ch 3 HW #1 due by 2/16 7 7 2/17/2020 Mon 2/19/2020 Wed Data Warehouse and OLAP Ch 4 9 2/26/2020 Wed Data Warehouse and OLAP Ch 4 10 2/26/2020 Wed Mining Frequent Pattern Ch 6 12 3/2/2020 Mon Associations and Correlations 11/2020 Wed Mining Frequent Pattern Ch 6 12 3/18/2020 Wed Mon Mining Frequent Pattern Ch 6 12 3/18/2020 Wed Mon Mining Frequent Pattern Ch 6 13 3/18/2020 Wed Mon Mining Frequent Pattern Ch 6 13 3/18/2020 Wed Mon Mining Frequent Pattern Ch 6 13 3/18/2020 Wed Working on internet data, text HW #2 due by 3/23 14 10 3/23/2020 Mon Continue, review for midterm 2 HW #3 start 15 3/25/2020 Wed Classification: Basic Concepts Ch 8 17 4/1/2020 Wed Classification: Basic Concepts Ch 8 17 4/1/2020 Wed Classification: Advanced methods Ch 9 18 4/13/2020 Wed Classification: Advanced methods Ch 9 18 4/13/2020 Wed Classification: Advanced methods Ch 9 18 4/13/2020 Wed Cluster Analysis Ch 10 20 4/15/2020 Wed Cluster Analysis Ch 10 21 4/15/2020 Wed Cluster Analysis Ch 10 21 4/22/2020 Wed Cluster Analysis Ch 12 5/18 at day to submit all missing assignments with late penalty 5/11/2020 Wed Feerarch presentation Monday schedule 17 5/11/2020 Wed Research presentation Monday schedule	3	2/3/2020 Mon	Getting to Know Your Data, SQL	Ch 2		4
2/12/2020   Wed   Continue, review for midterm #1   Ch 3   HW #1 due by 2/16   7		2/5/2020 Wed	SQL, aggregation and report	Ch 2		5
School closed   President Day Holiday   School closed   HW #2 start   8	4	2/10/2020 Mon	Data Processing - text and image	Ch 3		6
2/19/2020   Wed   Midterm #1   BHW #2 start   8		2/12/2020 Wed	Continue, review for midterm #1	Ch 3	HW #1 due by 2/16	7
6         2/24/2020 Mon         Database vs Data Warehouse         Ch 4         9           2/26/2020 Wed         Data Warehouse and OLAP         Ch 4         10           7         3/2/2020 Mon         Associations and Correlations         11           8         3/2/2020 Wed         Mining Frequent Pattern         Ch 6         12           8         3/9/2020 Mon         3/9-15 Spring break         School closed           9         3/16/2020 Wed         Mining Frequent Pattern         Ch 6         13           10         3/18/2020 Wed         Working on internet data, text         HW #2 due by 3/23         14           10         3/23/2020 Wed         Continue, review for midterm 2         HW #3 start         15           11         3/30/2020 Mon         Classification: Basic Concepts         Ch 8         17           11         3/30/2020 Mon         Classification: Advanced methods         Ch 9         16           12         4/6/2020 Wed         Classification: Advanced methods         Ch 9         16           12         4/6/2020 Wed         Cluster Analysis         Ch 10         20           4/15/2020 Wed         Cluster Analysis         Ch 10         21           4/15/2020 Wed         Outliner Detection <td< td=""><td>5</td><td>2/17/2020 Mon</td><td>President Day Holiday</td><td></td><td>School closed</td><td></td></td<>	5	2/17/2020 Mon	President Day Holiday		School closed	
2/26/2020 Wed         Data Warehouse and OLAP         Ch 4         10           7         3/2/2020 Mon         Associations and Correlations         11           3/4/2020 Wed         Mining Frequent Pattern         Ch 6         12           8         3/9/2020 Mon         3/9-15 Spring break         School closed           9         3/16/2020 Mon         Mining Frequent Pattern         Ch 6         13           3/18/2020 Wed         Working on internet data, text         HW #2 due by 3/23         14           10         3/23/2020 Mon         Continue, review for midterm 2         HW #3 start         15           11         3/30/2020 Wed         Classification: Basic Concepts         Ch 8         16           11         3/30/2020 Mon         Classification: Advanced methods         Ch 9         16           12         4/6/2020 Mon         Minterm #2         19           4/8/2020 Wed         Cluster Analysis         Ch 10         20           4/9/2020 Wed         Cluster Analysis         Ch 10         20           4/15/2020 Wed         Outliner Detection         Ch 12         HW #3 due by 4/20         22           14         4/20/2020 Mon         Outliner Detection         Ch 12         HW #3 due by 4/20         25 <td></td> <td>2/19/2020 Wed</td> <td>Midterm #1</td> <td></td> <td>HW #2 start</td> <td>8</td>		2/19/2020 Wed	Midterm #1		HW #2 start	8
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3/11/2020   Wed   3/9-15 Spring break   School closed     9   3/16/2020   Mon   Mining Frequent Pattern   Ch 6   13     3/18/2020   Wed   Working on internet data, text   HW #2 due by 3/23   14     10   3/23/2020   Mon   Continue, review for midterm 2   HW #3 start   15     3/25/2020   Wed   Classification: Basic Concepts   Ch 8   16     11   3/30/2020   Mon   Classification: Basic Concepts   Ch 8   17     4/1/2020   Wed   Classification: Advanced methods   Ch 9   18     12   4/6/2020   Mon   Midterm #2   19     4/8/2020   Wed   Cluster Analysis   Ch 10   20     4/9/2020   Thur   Last day to withdraw with 'W' grade   0% refund   21     13   4/13/2020   Mon   Cluster Analysis   Ch 10   21     4/15/2020   Wed   Outliner Detection   Ch 12   HW #3 due by 4/20   22     14   4/20/2020   Mon   Outliner Detection   Ch 12   HW #3 due by 4/20   22     15   4/27/2020   Working on image data   24     15   4/27/2020   Mon   Data Ming trends and impacts   Ch 13   26     4/29/2020   Wed   Review for Final, Research presentation   S/1 last day to submit all missing assignments with late penalty   S/11/2020   Mon   Final exam   Monday schedule   S/11/2020   Mon   Final exam   S/11/2020   Mon   Final exam   S/11/2020   Mon   Final exam   S/11/2020   Mon   Final exam   Monday schedule   S/11/2020		3/4/2020 Wed	Mining Frequent Pattern	Ch 6		12
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10   3/23/2020   Mon   Continue, review for midterm 2   HW #3 start   15	9	3/16/2020 Mon	Mining Frequent Pattern	Ch 6		13
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		5/6/2020 Wed	Research presentation	Monday s	chedule	
5/13/2020 Tue Review final exam answers	17	5/11/2020 Mon	Final exam			
		5/13/2020 Tue	Review final exam answers			

Late revision: 1/8/2020

- Course Description: This course will expose students to data mining concepts, techniques, and software utilized in the overall process of discovering knowledge within data.
- Textbook: <u>Data Mining: Concepts and Techniques</u>, Third Edition by Jiawei Han, Micheline Kamber and Jian Pei, 2012. ISBN: 978-0-12-381479-1.
- **Objectives**: Upon completion of this course, students will be able to:
  - A. Demonstrate an understanding of what knowledge discovery and data mining (KDDM) is.
  - B. Understand the historical perspective of KDDM.
  - C. Expound the differences between KDDM and information access/retrieval.
  - D. Understand KDDM processes, concepts, techniques, algorithms and languages.
  - E. Understand KDDM's applications in business and the sciences.
- Course Grading: 2 Midterm (30%), 1 Final Exam (20%), 3 Homework (30%), 1 Research (20%)

## **Class Policies:**

- This is a hands-on course. Students are required to bring personal laptop every class.
- Instructional Methods: lecture with slides, student presentations, class discussions and exercises, and project creations.
- **A**: 100-94, **A**-: 93-89, **B**+: 88-84, **B**: 83-80, **B**-: 79-76, **C**+: 75-72, **C**: 71-68, **D**: 67-64, below 64 is failing (C or better is needed for CS and IT majors. B- or better is needed for CIS Graduate Program.)
- It is students' responsibilities to verify all the scores posted on the class website that is announced on the first day of the class.
- Assignments should be used MySQL connecting through a Linux server that is announced on the first day of the class.
- Mid-Term Progress information will be provided to students by the instructor via KeanWise.
- No late work will be accepted without permission in advance from the instructor. Late work is penalized.
- No make-up exams are provided without documentation of medical or family emergency. Please arrange your schedule for the next 16 weeks to arrive in class on time and prepared.
- Attendance and participation are required.
- All work turned in under your name must be your own. No credit will be given for an assignment or homework that is copied in part or in total from another person.
- Exam policy: During class examinations, if a student leaves the classroom for any reason during the exam time, the exam must be turned in before the student departs, concluding the exam for that student. The student cannot resume the exam on return later. You may not make or take a phone call, text or access the internet during class or a test.
- Classes may not be audio or digitally captured, unless permission has been granted by the instructor for that specific class.
- Public posting of course materials from this class is prohibited. Materials presented in the classroom are for the personal use of
  registered students during the semester only. Homework, programs, and other classwork should not be shared, distributed or
  publicized in any way, for the protection of other students and in respect of the intellectual property rights of the faculty and
  copyright owners.

## **Important University Policies and Information:**

- The Kean Academic Calendar can be found online at <a href="https://www.kean.edu/offices/registrars-office/academic-calendar">https://www.kean.edu/offices/registrars-office/academic-calendar</a>
- Tutoring and learning Support services: <a href="http://www.kean.edu/content/tutoring-services">http://www.kean.edu/content/tutoring-services</a>
- Students should review the **Student Code of Conduct**, as it discusses expectations of appropriate conduct in the classroom: <a href="https://www.kean.edu/KU/Code-of-Conduct">https://www.kean.edu/KU/Code-of-Conduct</a>
- Students are responsible to review and understand the University Academic Integrity Policy available via the following link: <a href="https://www.kean.edu/academic-integrity">https://www.kean.edu/academic-integrity</a>
- Read Kean Students Rights and Responsibilities at https://www.kean.edu/offices/disability-services/rights-and-responsibilities
- Register for the university's **emergency notification system** at <a href="https://www.kean.edu/offices/university-police-0/campus-alert">https://www.kean.edu/offices/university-police-0/campus-alert</a>
- Students must have a valid Kean email account. You can request one at <a href="https://www.kean.edu/~ocisweb/forms.htm">https://www.kean.edu/~ocisweb/forms.htm</a>
- **Title IX**: Title IX of the Education Amendments of 1972 (Title IX) prohibit discrimination on the basis of sex in education programs or activities. Sexual harassment in any form will not be tolerated at Kean University. Sexual harassment by students should be reported to the Office of Affirmative Action Programs, Office of the Vice President for Student Affairs or the Office of Community Standards and Student Conduct immediately. Information about the University's Sexual Misconduct Policy may be found at the following: <a href="https://www.kean.edu/offices/policies/sexual-misconduct-policy">https://www.kean.edu/offices/policies/sexual-misconduct-policy</a>
- Americans with Disabilities Statement & Non-Discrimination Statement:
  - Kean University is an affirmative action, equal opportunity institution. Students with documented disabilities who may need special instructional accommodations or who may need special arrangements in the event of an evacuation should notify the instructor as soon as possible, no later than the second week of the term. Students may contact the Office of Disability Services in Downs Hall Room 122 or call 908-737-4910 to discuss special needs.
- **Kean University Non-Discrimination Policy Statement:** Kean University is an affirmative action, equal opportunity institution.

Syllabus Updates: Instructor reserve the right to change the syllabus at any time throughout the semester. All changes will be announced in class and a new syllabus will be electronically available to all students. If you are enrolled in this class past the add/drop date you are subjected to all rules in this syllabus.