

Topics	Specific Content	Date	week
Introduction	Introduction related technologies overview of data mining tasks (slides)	8/23	week 1
Preliminaries	data and attributes (slides) data preprocessing (slides) holiday evaluation using Weka (slides)	8/25 8/30, 9/1 9/6 9/8 (hw1 assigned)	week 1 week 2 week 3 week 3
Data mining algorithms: association rules	motivation and terminology (slides) example and basic idea: item sets generate item sets and efficient rules (slide1 slide2) correlation analysis (slides) experiments with Weka (slides)	9/13 9/15, 9/20 9/22 (hw2 assigned; hw1 due)	week 4 week 4,5 week 5
Data mining algorithms: categorization	basic learning/mining tasks inferring rudimentary rules (slide) midterm review midterm exam decision trees (slide) covering rules experiments with Weka	9/27 9/29 10/4 10/6 10/11, 10/13 10/18 10/20 (hw3 assigned; hw2 due)	week 6 week 7 week 7 week 8 week 9
Data mining algorithms: clustering	basic issues in clustering first conceptual clustering system partitioning methods hierarchical methods conceptual clustering experiments with Weka	10/25 10/27,11/1 11/3, 11/8 11/10 11/15 11/17 (hw3 due)	week 10 week 10,11 week 11,12 week 12 week 13
IoT data	data properties algorithms case study	11/22 11/24 11/29 (project due)	week 14 week 15
	Review for final exam Final exam	12/1 12/6	week 15 10:10am - 12:10pm