CSC334_424: Tentative Schedule (this schedule might change slightly to accommodate more topics as we move through the quarter)

DATE	TOPIC	ASSIGNMENTS
Week 1	 Syllabus & tentative schedule Overview of multivariate data analysis and its applications Matrix Computation Review Multiple Linear Regression (MLR) 	
Week 2	 Multiple Linear Regression (cont.) Multiple linear regression using SPSS Canonical Correspondence Analysis (CCA) Lab 1: Hands-on tutorial on SPSS: Introduction to SPSS and MLR 	Homework #1 is assigned
Week 3	 CCA and its application (cont) Factor Analysis Principal Component Analysis (PCA) 	Homework 1 is due Homework 2 is assigned
Week 4	 PCA and its Applications (cont.) Paper discussion 	Paper review
Week 5	 Linear Discriminant Analysis (LDA) Review Lab 2: Hands-on Tutorial on SPSS: PCA, CCA, and LDA 	Homework #2 is due
Week 6	 Midterm LDA and its applications (cont.) LDA using SPSS 	
Week 7	 Introduction to Clustering (partitioning and hierarchical) SPSS for clustering Paper discussion 	Homework #3 is assigned Paper review
Week 8	More on Clustering (density based, grid based, model based) and its applications (cont)	Homework 3 is due Homework 4 is assigned
Week 9	 Other techniques for feature reduction and extraction: multidimensional scaling Paper discussion 	Homework 4 is due Paper review
Week 10	Midterm II	
Week 11	• Take-Home Final Exam	Take-home exams are due on final exam date