JHU Engineering for Professionals
Applied and Computational Mathematics
Course Outline: Data Mining 625.740

Module	Dates	Topic
Module 1	W 9/02 — T 9/08	Intro. to Data Mining
Module 2	W 9/09 — T 9/15	Review of Statistics
Module 3	W 9/16 — T 9/22	Bayes Decision Theory*
Module 4	W 9/23 — T 9/29	Linear Regression
Module 5	W 9/30 — Th 10/01	Midterm Exam
Break	F 10/02 — S 10/11	No Class
Module 6	M 10/12 — S 10/18	Support Vector Machines
Module 7	M 10/19 — S 10/25	Linear Discrimination
Module 8	M 10/26 — S 11/01	Multilayer Neural Networks
Module 9	M 11/02 — S 11/08	Dimensionality Reduction
Module 10	M 11/09 — S 11/15	Decision Trees and Random Forests**
Module 11	M 11/16 — S 11/22	Unsupervised Learning
Module 12	M 11/23 — S 11/29	Student Presentations
Module 13	M 11/30 — S 12/06	Student Presentations
Module 14	M 12/07 — S 12/13	Final Exam

*Project proposals are due on 9/22.
**No homework this week. Project papers and presentation videos and slides are due on 11/17.