

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

Module	Dates	Topic
Module 1	M 8/26 — S 9/01	Intro. to Data Mining
Module 2	M 9/02 — S 9/08	Review of Statistics
Module 3	M 9/09 — S 9/15	Bayes Decision Theory
Module 4	M 9/16 — S 9/22	Linear Regression
Module 5	M 9/23 — S 9/29	Unsupervised Learning
Module 6	W 10/02 — M 10/07	Midterm Exam
Module 7	M 10/07 — S 10/13	Linear Discrimination*
Break	S 10/13 — T 10/22	No Class
Module 8	W 10/23 — T 10/29	Multilayer Neural Networks
Module 9	W 10/30 — T 11/05	Dimensionality Reduction
Module 10	W 11/06 — T 11/12	Support Vector Machines
Module 11	W 11/13 — T 11/19	Decision Trees and Random Forests**
Module 12	W 11/20 — T 11/26	Student Presentations
Module 13	W 11/27 — S 12/01	Student Presentations
Module 14	M 12/02 — S 12/08	Final Exam

\*Project proposals are due on 10/10.

\*\*No homework this week. Project papers and presentation videos and slides are due on 11/19.