ECE M146 Syllabus
Introduction to Machine Learning Monday, 4/1/2019
Instructor: Lara Dolecek

Lecture #	Date	Assignment	Topics	Reading
L1	4/1/19	HW 1 out	Overview of ML methods. Math review.	Daume Ch 1.1 –1. 2
L2	4/3/19		Perceptron.	Daume Ch. 3
L3	4/8/19	HW 2 out	Linear regression.	Daume Ch. 6
L4	4/10/19	**HW 1 due**	More on regression; logistic regression; gradient descent.	Daume Ch. 6
L5	4/15/19	HW 3 out	Decision trees.	Daume Ch. 1
L6	4/17/19	**HW 2 due**	kNN; cross-validation; multi-class classification.	Daume Ch. 2.1– 2.2; 4.6; 5.2
L7	4/22/19	HW 4 out	Support Vector Machines.	Daume 6.7; 9.5 and 9.6
L8	4/24/19	**HW 3 due**	Soft SVM; regularization; kernels.	Daume Ch. 6 and Ch. 9
L9	4/29/19	HW 5 out	Probabilistic modeling; Naive Bayes.	Daume Ch. 7.1 – 7.3
L10	5/1/19	**HW 4 due**	Midterm Review	
L11	5/6/19		**MIDTERM IN CLASS**	
L12	5/8/19	HW 6 out	Gaussian discriminative analysis; MLE.	Daume Ch. 7.5 – 7.7
L13	5/13/19	**HW 5 due**	Unsupervised learning; K-means clustering.	Daume Ch. 13.1
L14	5/15/19	HW 7 out	Principal component analysis; eigen-value decomposition.	Daume Ch. 13.2
L15	5/20/19	**HW 6 due**	Expectation Maximization.	Daume Ch. 14
L16	5/22/19	HW 8 out	Ensemble Methods.	Daume Ch. 11
L17	5/27/19		**No class. University Holiday.**	
L18	5/29/19	**HW 7 due**	Neural Networks.	Daume Ch. 8
L19	6/3/19		Advanced topics.	
L20	6/5/19	**HW 8 due**	Final review.	
	6/13/19		**FINAL EXAM**	