

Day	Date	Topic	Released	Due @ 4pm
Wed	6-Sep-17	Lec 1: Introduction; Linear Classification		
Fri	8-Sep-17		HW1	
Mon	11-Sep-17	Lec 2: Learning Linear Classifiers, Perceptron Algorithm		
Wed	13-Sep-17	Lec 3: Linear Classifiers Non-Separable Case, Gradient Descent		
Mon	18-Sep-17	Lec 4: Linear Regression - Empirical Risk & Least Squares, Regularization		
Wed	20-Sep-17	Lec 5: Support Vector Machines; Primal Formulation; Geometric Margin		
Fri	22-Sep-17		Project 1	HW1
Mon	25-Sep-17	Lec 6: Dual Formulation; Kernels		
Wed	27-Sep-17	Lec 7: Performance Measures; Dimensionality Reduction		
Fri	29-Sep-17			Graded HW1
Mon	2-Oct-17	Lec 8: Decision Trees; Entropy		
Wed	4-Oct-17	Lec 9: Bagging; Random Forest		
Fri	6-Oct-17		HW2	Project 1
Mon	9-Oct-17	Lec 10: Boosting; Adaboost		
Wed	11-Oct-17	Lec 11: Introduction to Neural Networks		
Fri	13-Oct-17			HW2
Mon	16-Oct-17	Fall Break; no lecture		
Wed	18-Oct-18	MIDTERM (4:30pm-6pm); no lecture		
Fri	20-Oct-17		Project 2	Graded HW2
Mon	23-Oct-17	Lec 12: Training Deep Neural Networks		
Wed	25-Oct-17	Lec 13: Convolutional Neural Networks		
Mon	30-Oct-17	Lec 14: Recurrent Neural Networks; Autoencoders		
Wed	1-Nov-17	Lec 15: Introduction to Clustering; K-means, Hierarchical Clustering		
Fri	3-Nov-17		HW3	Project 2
Mon	6-Nov-17	Lec 16: Spectral Clustering		
Wed	8-Nov-17	Lec 17: Collaborative Filtering		
Mon	13-Nov-17	Lec 18: Introduction to Generative Models; Gaussian Mixture Models		
Wed	15-Nov-17	Lec 19: Expectation Maximization		
Fri	17-Nov-17		HW4	HW3
Mon	20-Nov-17	Lec 20: Bayesian Networks; d-separation		
Wed	22-Nov-17	no lecture (THANKSGIVING)		
Mon	27-Nov-17	Lec 21: Learning Bayesian Networks		Graded HW3
Wed	29-Nov-17	Lec 22: Hidden Markov Models; modeling		
Mon	4-Dec-17	Lec 23: Hidden Markov Models; algorithms		
Wed	6-Dec-17	Lec 24: Introduction to Reinforcement Learning		
Fri	8-Dec-17			HW4
Mon	11-Dec-17	Lec 25: Reinforcement Learning; Course Summary		
Fri	15-Dec-17			Graded HW4
Thu	21-Dec-17	FINAL EXAM (8am-10am)		