

Day	Module	Lec	Advance Reading		ECE5984 SP22 Daily Schedule	
			1st ed	2nd ed	Topics	Due
18-Jan	I - Foundations	1	1.1 - 1.7	1.1 - 1.7	Course introduction	
20-Jan		2		App. D	Review of linear algebra	
25-Jan		3	App. B	App. B & A	Review of statistics	
27-Jan	II - Data Prep	4	3.1 - 3.5	3.1 - 3.5	Data exploration	quiz 1
1-Feb		5			More on data exploration and presentation	
3-Feb		6			Python and sklearn	
8-Feb		7	3.4	3.4	Missing values	hw 1
10-Feb		8	3.6	3.6	Data preparation	quiz 2
15-Feb	III - Information and Similarity	9	4.1 - 4.3	4.1 - 4.3	Introduction to decision trees	hw 2
17-Feb		10	4.4 - 4.5	4.4 - 4.5	More on decision trees	
22-Feb		11	5.1 - 5.3	5.1 - 5.3	Similarity measures	
24-Feb		12	5.4	5.4	Classification	quiz 3
1-Mar	IV - Probability	13	6.1 - 6.2	6.1 - 6.2	Probability-based learning; Bayes' theorem	hw 3
3-Mar		14	6.3 - 6.4	6.3 - 6.4	Bayesian prediction	quiz 4
8-Mar	<i>No Class - Spring Break</i>					
10-Mar						
15-Mar	V - Gradient-based methods	15	7.1 - 7.2	7.1 - 7.2	Gradient-based methods	
17-Mar		16	7.3 - 7.4	7.3 - 7.4	Multivariate linear regression	
22-Mar		17		5.4.6	Variable selection	prj 1
24-Mar		18		7.4	Logistic regression	quiz 5
29-Mar	VI - Performance	19	8.1 - 8.3	9.1 - 9.3	Performance evaluation; misclassification	
31-Mar		20	8.4	9.4	ROC curves; other performance measures	
5-Apr		21		4.4.5	Model selection / ensemble models	hw 4
7-Apr	VII - Neural networks	22	7.4	8.1 - 8.3	Neural networks	quiz 6
12-Apr		23		8.4	More on neural networks	
14-Apr		24			Deep learning	
19-Apr		25	9.1 - 9.6	7.4.7	Support vector machines	hw 5
21-Apr	VIII - Other methods	26			Other modeling techniques	quiz 7
26-Apr		27		10.1 - 10.5	Unsupervised learning	
28-Apr		28		11.1 - 11.5	Reinforcement learning	hw 6
3-May		29			Course review	quiz 8 / prj 2
5-May	<i>No Class - Reading Day</i>					
7-May	<b>FINAL EXAM (7:00 to 9:00 PM)</b>					