Live Meeting and Assignment Dates

#	Date	Topic	Assignments
01	01/19	Course Introduction	Read chapter 1 of **2019BurkovTheHundred.pdf**
02	01/24	Python Programming	
03	01/23	Python (continued): Numpy and Pandas	Ch 4-5 of **Python4DataAnalysis.pdf**
04	01/31	Pandas (continued); What is data? What kind of data? Numerical Representation.	**Assignment 01** out (due Mon. 13 February; 11:59 PM) CH 2 of **2019BurkovTheHundred.pdf**
05	02/02	Data (continued); Simple Linear Regression (SLR)	CH 3 of **2019BurkovTheHundred.pdf**
06	02/07	SLR (continued)	
	02/08	DROP DEADLINE	
07	02/09	SLR (code Demo)	Chapter 3: **ISLRv2_website.pdf;** ↓ **sklearn-regression.zip** ↓
08	02/14	Regression (continued);	**Assignment 02** out (due Tues. 28 February; 11:59 PM)
09	02/16	Regression (continued);	**normal_equation_regression.pdf** ↓
10	02/21	Bias-Variance Trade-off	pp 41-54 of **machine-learning-yearning.pdf** ↓ CH 2.2 of **ISLRv2_website.pdf** ↓
	02/23	**NO CLASS (SWAP DAY)**	
11	02/28	Beyond Linear Regression	
12	03/02	Beyond Linear Regression (demo) Feature Engineering	~~**Practice Midterm** out~~ Now online and open book (no practice mid-term: topics span hw 1 and 2, demo 1 and 2, and lectures 1-6, along with the readings)
13	03/07	Feature Engineering (continued) Evaluating performance;	CH 5.1 of **ISLRv2_website.pdf** ↓ pp 41-54 of **machine-learning-yearning.pdf** ↓
14	03/09	Regularization; Performance Metrics	CH 6.2 of **ISLRv2_website.pdf** ↓ **Midterm (online, 48 hours to complete; 2-hour time limit once started. Midterm spans material above this line.** Write-up: **performance-metrics.pdf** ↓
	03/12	Assignment 3 was moved to make time for the online Midterm	**Assignment 03** out (due Wed. 29 March.; 11:59 PM)
15	03/14	Classifiers (Logistic Regression, KNN, SVM)	

#	Date	Topic	Assignments
16	03/16	Classifiers (continued);	
	03/20-03/24	**SPRING BREAK WEEK**	
17	03/28	Classifiers (continued)	**Project 01** out (due 11 April.; 11:59 PM)
18	03/30	Classifiers (Naive Bayes Classifier)	**Assignment 04** out (due Thur. 13 April.; 11:59 PM)
19	04/04	Classifiers (Building Decision Trees; Ensemble Methods);	
20	04/06	Deep Learning: Overview of the model types, applications, and state-of-the-art	
21	04/11	Building a basic neural network model; Parameter tuning in neural nets	**Project 02** out (due 24 April.; 11:59 PM)
22	04/13	Clustering techniques (unsupervised learning)	**Assignment 05** (due Mon. 27 April.; 11:59 PM)
23	04/18	Clustering techniques (continued); Dimensionality Reduction	
24	04/20	Recommendation Systems	
25	04/25	Recommendation Systems (continued)	(OPTIONAL) **Project 03** out (due Fri., 5 May.; 11:59 PM)
26	04/27	Course wrap-up; What's next?	