

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT	NOTES
1	Week 1			8/31/2016	9/1/2016	09/02/2016		
	Class			What is Data Science? Process. Why is it important? Who are we? Course overview. - PP/KR/W				
	Lab				Lab 0: TBD - Intro to Python (basic syntax, numpy, graphing libraries, basic program structure) (WP)	Lab 0: 10:00- 11:30 am - Intro to Python (basic syntax, numpy, graphing libraries, basic program structure) (WP)		
	HW			HW0 release		HW0 Part 1 Due		Refreshing Statistical and Coding
	Project							
2	Week 2	9/5/2016		9/7/2016		09/09/2016		
	Class	LABOR DAY - no class	Python Tutorial with Ian	Statistical Learning. Data Collection & Web Scraping Exploratory Data Analysis & Visualization (WP)				
	Lab				Lab 1: Intro to pandas, basic stats and visualization, scraping (WP)	Lab 1: Intro to pandas, basic stats and visualization, scraping (WP)		
	HW		HW0 due	HW1 release				Scraping in Python and Plotting,
	Project							
3	Week 3	9/12/2016		9/14/2016				
	Class	K-Nearest Neighbors. Data Cleanup (KR)		Probability Distributions & Inference Review Intro to Linear Regression I (PP)				
	Lab				Lab 2: comparing KNN with Linear regression (WP)	Lab 2: comparing KNN with Linear regression (WP)		
	HW		HW1 due	HW2 release				KNN, Pandas
	Project							
4	Week 4	9/19/2016		9/21/2016				
	Class	Introduction to Linear Regression II: Simple and Multiple (PP)		Cross-Validation & Model Selection (PP)				
	Lab				Lab 3: Linear Regression/Model selection (Hari)	Lab 3: Linear Regression/Model selection (Hari)		
	HW	HW2 due (milestone 1)		HW3 release				Regression
	Project							
5	Week 5	9/26/2016		09/28/2016				
	Class	Linear Model Regularization: Ridge & Lasso (PP)		Principle Components & High Dimensionality (KR)				
	Lab				Lab 4: Variable selection, regularization, PCA (PP)	Lab 4: Variable selection, regularization, PCA (PP)		
	HW		HW3 due	HW4 release				Model Selection, LASSO, Ridge
	Project							
6	Week 6	10/3/2016		10/5/2016				

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT	NOTES
	Class	Bayesian Thinking (KR)		More on Exploratory Data Analysis & Visualizations (WP) Ethics?				
	Lab				Lab 5: Milestone lab (install, git, python environments and libraries) (WP)	Lab 5: Milestone lab (install, git, python environments and libraries) (WP)		
	HW	HW4 due (milestone 2)		no homework - midterm I				
	Project							
<b>MID I</b>	<b>Midterm I - Week 7</b>	10/10/2016		10/12/2016				
	Class	<b>No Class – Columbus Day</b>			<b>MIDTERM I</b>			
	Lab				Lab 5 cancelled	Lab 5: Review of answers (KR)		
	HW				Midterm I Take Home Exam released 9:00am	Midterm I Take Home Exam due 9:00am		
	Project							
<b>8</b>	<b>Week 8</b>	10/17/2016		10/19/2016				
	Class	Intro to Logistic Regression (KR)		Logistic Regression Details (KR)				
	Lab				Lab 6: Logistic Regression (WP)	Lab 6: Logistic Regression (WP)		
	HW			HW5 release				
	Project							
<b>9</b>	<b>Week 9</b>	10/24/2016		10/26/2016				
	Class	Bayesian Thinking/KNN revisited (WP)		LDA (KR)				
	Lab				Lab 7: LDA (WP)	Lab 7: LDA (WP)		
	HW		HW5 due	HW6 release				
	Project							
<b>10</b>	<b>Week 10</b>	10/31/2016		11/2/2016				
	Class	Regression Trees (PP)		Random Forests (PP)				
	Lab				Lab 8: Random Forests (WP)	Lab 8: Random Forests (WP)		
	HW	HW6 due (milestone 3)		HW7 release				
	Project							
<b>11</b>	<b>Week 11</b>	11/7/2016		11/9/2016				
	Class	Support Vector Machines I (PP)		Support Vector Machines II (PP/Hari)				
	Lab				Lab 9: SVM (Hari)	Lab 9: SVM (Hari)		
	HW		HW7 due	HW8 release				
	Project							
<b>12</b>	<b>Week 12</b>	11/14/2016		11/16/2016				
	Class	Experimental Design and testing (KR)		midterm review				
	Lab				Lab 9b: Project Milestone (all)	Lab 9b: Project Milestone (all)		

		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT	NOTES
	HW		HW8 due	no homework - midterm II				
	Project							
13	Midterm II - Week 13	11/21/2016		11/23/2016				
	Class	Midterm II Exam		No Class – Thanksgiving				
	Lab				no lab	no lab		
	HW							
	Project							
14	Week 14	11/28/2016		11/30/2016				
	Class	More visualization, story telling, project related stuff (PP?)		Wrap - Up				
	Lab							
	Reading Period	12/5/2016		12/7/2016	12/8/2016	12/9/2016		
					Project Poster Presentations (1/3 of grade)	Project Poster Presentations		
	Finals Week	12/12/2016		12/14/2016				
				Final Project Due (2/3 of grade)				