

Week	Class Meeting		Class Meeting		Lab Meeting	
	8:35-9:55, CS 143		8:35-9:55, CS 143		13:05-14:25, McCain Arts - SS 2176	
1	3/Sep/2019		5/Sep/2019		6/Sep/2019	
	Tuesday		Thursday		Friday	
	Intro to DS. Intro to R. Interacting with R through R notebooks		R basic concepts		R basic concepts	
2	10/Sep/2019		12/Sep/2019		13/Sep/2019	
	Tuesday		Thursday		Friday	
	R basic concepts (cont.)		Data manipulation		Data manipulation with dplyr	
3	17/Sep/2019		19/Sep/2019		20/Sep/2019	
	Tuesday		Thursday		Friday	
	Data pre-processing		Data pre-processing (cont.)		Data pre-processing	
4	24/Sep/2019		26/Sep/2019		27/Sep/2019	
	Tuesday		Thursday		Friday	
	Data summarization		Data visualization		Summarization and visualization	
5	1/Oct/2019		3/Oct/2019		4/Oct/2019	
	Tuesday		Thursday		Friday	
	Data visualization (cont.)		Reporting		Visualization and reporting	
	8/Oct/2019		10/Oct/2019		11/Oct/2019	
	Tuesday		Thursday		Friday	

6	Deployment through Shiny Web apps	Mid Term Exam	Shiny apps
7	15/Oct/2019	17/Oct/2019	18/Oct/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Introduction to Predictive Analytics. Classification and regression tasks. Evaluation metrics.	Linear models: linear regression and linear discriminants.	Linear models
8	22/Oct/2019	24/Oct/2019	25/Oct/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Support vector machines	Support vector machines (cont.)	Support vector machines.
9	29/Oct/2019	31/Oct/2019	1/Nov/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Classification and regression trees.	Classification and regression trees (cont.)	Tree-based models
10	5/Nov/2019	7/Nov/2019	8/Nov/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Model evaluation and selection.	Model evaluation and selection (cont.)	Model evaluation and selection with package performanceEstimation
11	12/Nov/2019	14/Nov/2019	15/Nov/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Fall Study Week - NO CLASSES		
	19/Nov/2019	21/Nov/2019	22/Nov/2019

12	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Clustering. Distance functions.	Partition-based clustering.	Clustering
13	26/Nov/2019	28/Nov/2019	29/Nov/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	Hierarchical clustering. Evaluation of clustering solutions.	Outlier detection methods.	Clustering and outlier detection
14	3/Dec/2019	5/Dec/2019	6/Dec/2019
	<i>Tuesday</i>	<i>Thursday</i>	<i>Friday</i>
	End of Classes		