

Lec	Week	Day	Date	Topics	Homework	Project
1		M	28-Mar	Course overview + Python modules, libraries, and packages		
		T	29-Mar	git and GitHub		
2	1	W	30-Mar	SQL Databases I - sqlite3		
		R	31-Mar	terminal and text editor		
3		F	1-Apr	SQL Databases II - sqlite3		
4		M	4-Apr	Interactive data visualization I - Plotly		
		T	5-Apr	Jekyll and blogging		
5	2	W	6-Apr	Interactive data visualization II - Plotly		
		R	7-Apr	HW1 material - sql		
6		F	8-Apr	Advanced data manipulation - Pandas	HW0 - setup	Project pitch
7		M	11-Apr	Web scraping I - Scrapy		
		T	12-Apr	HW1 material		
8	3	W	13-Apr	Web scraping II - Scrapy		
		R	14-Apr	Python and REST APIs (maybe?)		
9		F	15-Apr	Web scraping III - Scrapy	HW1 - sql + visualization	Comment on pitches
10		M	18-Apr	Optimization - stochastic gradient descent		
		T	19-Apr	HW2 material		
11	4	W	20-Apr	Deep learning basics with MLP I - Keras/Tensorflow [Phil will sub in]		
		R	21-Apr	HW2 material		
12		F	22-Apr	Deep learning basics with MLP II - Keras/Tensorflow		Prposal
13		M	25-Apr	Computer vision with CNN I - Keras/Tensorflow		
		T	26-Apr	Google colab		
14	5	W	27-Apr	Computer vision with CNN II - Keras/Tensorflow		
		R	28-Apr	HW3 material		
15		F	29-Apr	NLP I - Keras/Tensorflow	HW2 - web scraping	
16		M	2-May	NLP II - Keras/Tensorflow		
		T	3-May	HW3 material		
17	6	W	4-May	Functional API/ Multimodal Learning - Keras/Tensorflow		
		R	5-May	Project update presentations I		
18		F	6-May	Web programming I - Flask		Peer reviews I
19		M	9-May	Web programming II - Flask	HW3 - CV	
		T	10-May	HW4 material		
20	7	W	11-May	Web programming III - Flask		
		R	12-May	HW4 material		
21		F	13-May	Computing and society [Phil will sub in]		
22		M	16-May	Generative Models - Keras/Tensorflow	HW4 - NLP	
		T	17-May	HW5 material		
23	8	W	18-May	Python in the wild I [Guest lecture by Ryan Fish]		
		R	19-May	HW5 material		
24		F	20-May	Network data analysis - networkx		
25		M	23-May	TBD [Generative Model II or Network Data Analysis II]	HW5 - web app	
		T	24-May	Project update presentations II		
26	9	W	25-May	Python in the wild II [Guest lecture by Emily Charles]		
		R	26-May	[TBD]		
27		F	27-May	Advanced topics - Multiple inheritance, Decorators and wrappers	Guest lectures (for credit)	Peer reviews II
		M	30-May	Memorial Day		
		T	31-May	Time for project (maybe?)		
28	10	W	1-Jun	Time for project (virtual office hour)		
		R	2-Jun	Time for project (maybe?)		
29		F	3-Jun	Time for project (virtual office hour)		
		TBD		Project Presentations during Final Exam block		Presentations and peer review