

2019 Fudan International Summer School: Foundations of Data Science					
Day	Date	Lecture period	Topic	Reading	Lab
1	7/9, Tuesday	1pm-2pm	Introduction / cause & effect	Chapters 1 - 2	Lab1: Expressions
		2:10pm-3:10pm	Expressions and data types	Chapters 3 - 4	
		3:10pm-3:35pm	Lab time		
2	7/10, Wednesday	1pm-2pm	Sequences	Chapter 5	Lab2: Types and sequences
		2:10pm-3:10pm	Tables	Chapter 6	
		3:10pm-3:35pm	Lab time		
3	7/11, Thursday	9am-10am	Charts / Histograms	Chapter 7	Lab3: Arrays and Tables
		10:10am-11:10am	Functions and apply	Chapter 8 intro, 8.1	
		11:10am-11:35am	Lab time		
4	7/16, Tuesday	1pm-2pm	Groups / joins	8.2-8.5	lab4: Functions and visualizations
		2:10pm-3:10pm	Iterations, conditionals	8.1-9.2	
		3:10pm-3:35pm	Lab time		
5	7/17, Wednesday	1pm-2pm	Simulation and chance	9.3 - 9.5	Lab5: Randomization
		2:10pm-3:10pm	Sampling and empirical distributions	Chapter 10	
		3:10pm-3:35pm	Lab time		
6	7/18, Thursday	9am-10am	Models	11.1	Lab6: Statistics and Samples
		10:10am-11:10am	Hypothesis testing	11.2-11.4	
		11:10am-11:35am	Lab time		
7	7/23, Tuesday	1pm-2pm	AB testing, causality	Chapter 12	Lab 7: Bootstrap
		2:10pm-3:10pm	Bootstrapping and confidence interval	Chapter 13	
		3:10pm-3:35pm	Lab time		
8	7/24, Wednesday	1pm-2pm	CI for hypothesis testing, center and spread	13.4, 14.1-14.2	No Lab
		2:10pm-3:10pm	Normal distribution, CLT	14.3-14.4	
		3:10pm-3:35pm	Free time		

Daily Schedule for Foundation of Data Science

9	7/25, Thursday	9am-10am	Sample means, designing experiments	14.5, 14.6	Lab8: regression
		10:10am-11:10am	correlation and regression	15.1 - 15.2	
		11:10am-11:35am	Lab time		
10	7/30, Tuesday	1pm-2pm	Least squares, regression inference	15.3, 15.5, Chapter 16	Lab9: Regression inference
		2:10pm-3:10pm	Classification	Chapter 17	
		3:10pm-3:35pm	Lab time		
11	7/31, Wednesday	1pm - 2pm	Decisions	Chapter 18	Lab10: Decisions
		2pm - 3pm	Wrap up and finish lab 10	No reading	
12	8/1, Thursday	8:55am-11:35am	Final Exam		