

course_roadmap_is430_summer_2024.xlsx

WK	Topics	Readings	In-Class Activity	Assignments	Final Project
1	Course Startup	Syllabus	Introduce Yourself	Computing Setup	
2	Computing and Programs Writing Simple Programs Computing With Numbers	Zelle Chaps. 1, 2, 3	Your goals and expectations for programming	Zelle Chap. 1 Zelle Chap. 2 Zelle Chap. 3	
3	Sequences	Zelle Chap. 5 Severance Chap. 10	Review solutions	Zelle Chap. 5	
4	Defining Functions Decision Structures	Zelle Chap. 6 Zelle Chap. 7	Review solutions	Zelle Chap. 6 Zelle Chap. 7	
5	Loop Structures and Booleans	Zelle Chap. 8	Review solutions	Zelle Chap. 8	
6	Data Collections Regular Expressions	Zelle Chap. 11 Severance Chap. 11	Review solutions	Zelle Chap. 11 Severance Chap. 11	
7	Simulation and Design	Zelle Chap. 9	Review solutions	Zelle Chap. 9	
8	Object-Oriented Programming	Severance Chap. 14	Review solutions	Severance Chap. 14	
9	Jupyter Notebooks Numpy	McKinney Chaps. 2, 4	Review solutions	Jupyter Notebook Numpy	
10	Pandas Plotting and Vizualization	McKinney Chaps. 5, 6, 7, 9	Review solutions	Pandas Plotting and Visualization	Work On
11	Course Wrapup		Review solutions		Work On
12	Lab Session For Final Project				Submit