Course Schedule

Week	Dates	Topic (Lecture)	Lab Focus	Homework
1	Jan 13–17	Course Introduction and Data Types	**No Lab**	**No HW**
	Jan 13	Course Introduction and Colab		
	Jan 15	Basic Data Types		
	Jan 17	Variables, Expressions, and Conditionals		
2	Jan 20–24	Conditionals and Lists	**No Lab**	HW #1
	Jan 20	**No Lecture**		
	Jan 22	Advanced Conditionals		
	Jan 24	Lists		
3	Jan 27–31	Collections and Loops	Expressions and Conditionals	HW #2
	Jan 27	Collections		
	Jan 29	Introduction to Loops		
	Jan 31	Looping Continued		
4	Feb 3–7	Functions, Objects, and Methods	Collections and Loops	HW #3
	Feb 3	Functions		
	Feb 5	Advanced Functions		
	Feb 7	Objects and Methods		
5	Feb 10–14	Classes and Libraries	Functions	HW #4
	Feb 10	Classes		
	Feb 12	Classes Continued		
	Feb 14	Modules, Packages, and Libraries		
6	Feb 17–21	Review and Exam 1	**No Lab**	**No HW**
	Feb 17	Optional: Review Day		
	Feb 19	Exam #1		
	Feb 21	Virtual: Representing Information		
7	Feb 24–28	NM I: Differentiation and Integration	Differentiation	HW #5

Week	Dates	Topic (Lecture)	Lab Focus	Homework
	Feb 24	Differentiation Methods		
	Feb 26	Introduction to Integration		
	Feb 28	More Integration Techniques		
8	Mar 3–7	Debugging and Datetime	Integration	HW #6
	Mar 3	Error Handling		
	Mar 5	Datetime		
	Mar 7	Debugging		
9	Mar 10–14	NM II: Gradients and Roots	Gradients	HW #7
	Mar 10	Gradients		
	Mar 12	Root Finding		
	Mar 14	More Root Finding		
-	Mar 17–21	**Spring Break**	**No Lab**	**No HW**
10	Mar 24–28	Sorting and Algorithms	Root Finding	HW #8
	Mar 24	Sorting Methods		
	Mar 26	More Sorting Methods		
	Mar 28	Algorithm Efficiency		
11	Mar 31–Apr 4	File I/O and Data Visualization	Sorting Methods	HW #9
	Mar 31	Working with Files		
	Apr 2	Plotting with Matplotlib		
	Apr 4	More Plotting		
12	Apr 7–11	NM III: Systems of Equations	Data Visualization	HW #10
	Apr 7	Introduction to SoE		
	Apr 9	Methods for Solving SoE		
	Apr 11	Practical Examples for SoE		
13	Apr 14–18	Review and Exam 2	**No Lab**	**No HW**
	Apr 14	Flex Day		
	Apr 16	Review		
	Apr 18	Exam #2		
14	Apr 21–25	APIs and Data Integration	Systems of Equations	**No HW**
	Apr 21	Background and HTTP		

Week	Dates	Topic (Lecture)	Lab Focus	Homework
	Apr 23	HTTP Methods in Python		
	Apr 25	Using APIs		
15	Apr 28 (last day)	**Project Q&A Day**	**No Lab**	**No HW**