

Math for Data Science – Spring 2025

DATE	WEEK	DAY	Lecture Topic	Assignments, Prep, and Exams	Other Notes
01/08/25	1	Wednesday	Welcome to Math for Data Science + Self Assessment		Don't forget to prepare for next class!
01/10/25	1	Friday	Math Fundamentals and Python	Class Prep Day 2	I am here to help! It is 100% okay if you don't remember or never learned these topics!
01/13/25	2	Monday	Math Fundamentals and Python	Class Prep Day 3	
01/15/25	2	Wednesday	Number Theory – Order of Operations	Class Prep Day 4	
01/17/25	2	Friday	Variables, Functions, and Empirical Modeling - Linear Regression	Class Prep Day 5 – Homework 1	
01/20/25	3	Monday	No Class – MLK Day		
01/22/25	3	Wednesday	Basic Functions, Curvilinear Models, and Unpacking Summations	Class Prep Day 6	Come get help if you need it! Math is challenging, but your brain can do it!
01/24/25	3	Friday	More Curvilinear Models	Class Prep Day 7 – Homework 2	
01/27/25	4	Monday	No Class	Watch review videos and practice as needed!	
01/29/25	4	Wednesday	No Class		
01/31/25	4	Friday	No Class		
02/03/25	5	Monday	Exponents and Logistic Equation in Modeling	Class Prep Day 8	
02/05/25	5	Wednesday	Sick Day – boo!		
02/07/25	5	Friday	Lab - Practice Exam	Class Prep Day 9	Exam1 in class Friday
02/10/25	6	Monday	Exam 1	Exam 1	
02/12/25	6	Wednesday	Limits	Class Prep Day 10	Now we are getting a little more abstract, try to really imagine what is going on.
02/14/25	6	Friday	Derivatives - definition and calculation	Class Prep Day 11	
02/17/25	7	Monday	Derivatives – applications	Class Prep Day 12 – Homework 3	
02/19/25	7	Wednesday	Derivatives – optimization	Class Prep Day 13	
02/21/25	7	Friday	Partial Derivatives	Class Prep Day 14	
02/24/25	8	Monday	What is an integral	Class Prep Day 15 – Homework 4	
02/26/25	8	Wednesday	Pause for Understanding	Class Prep Day 16	Exam 2 in class Friday
02/28/25	8	Friday	Exam 2	Exam 2	
03/03/25	Spring Break				
03/05/25	Spring Break				
03/07/25	Spring Break				

03/10/25	9	Monday	Understanding Probability	Class Prep Day 17	Switching gears to Probability – but please don't forget all the calculus we just learned.
03/12/25	9	Wednesday	Joint Probabilities	Class Prep Day 18	
03/14/25	9	Friday	Pause for Understanding	Class Prep Day 19 – Homework 5	
03/17/25	10	Monday	Union Probabilities	Class Prep Day 20	
03/19/25	10	Wednesday	Conditional Probability	Class Prep Day 21	
03/21/25	10	Friday	Pause for Understanding	Class Prep Day 22 – Homework 6	
03/24/25	11	Monday	Probability Distributions	Class Prep Day 23	
03/26/25	11	Wednesday	Probability Distributions	Class Prep Day 24	Exam 3 in class Friday
03/28/25	11	Friday	Exam 3	Exam 3	
03/31/25	12	Monday	Matrices and Vectors	Class Prep Day 25	Linear algebra is one of the most used mathematical ideas!
04/02/25	12	Wednesday	Matrix multiplication	Class Prep Day 26	
04/04/25	12	Friday	Pause for Understanding	Class Prep Day 27 – Homework 7	
04/07/25	13	Monday	Determinants	Class Prep Day 28	
04/09/25	13	Wednesday	Solving Linear Systems – optimization	Class Prep Day 29	
04/11/25	13	Friday	Lab	Class Prep Day 30 – Homework 8	
04/14/25	14	Monday	Review		Exam 4 in class Wednesday
04/16/25	14	Wednesday	Exam 4	Exam 4	