MATH 150: Mathematical Modeling – *ANTICIPATED Schedule* **Spring Semester 2020**

Week	Day		Lecture	Topics	Discussion (D)	Homework
Week 1	Wed	Jan. 20	Lecture 1	Intro + scales	D-1	Homework 1 (I)
	Mon	Jan. 25	Lecture 2	Scales + Dynamical systems		
Week 2	Wed	Jan. 27	Lecture 3	Dynamical systems	D-2	
	Mon	Feb. 1	Lecture 4	Dynamical systems		
Week 3	Wed	Feb. 3	Lecture 5	Dynamical systems	D-3	Homework 2 (I)
	Mon	Feb. 8	Lecture 6	Dynamical systems	**Last day drop**	
Week 4	Wed	Feb. 10	Lecture 7	Dynamical systems	D-4	Homework 3 (G)
	Mon	Feb. 15	**President Day**	NO CLASS		
Week 5	Wed	Feb. 17	Lecture 8	Random Walks	D-5	
	Mon	Feb. 22	Lecture 9	Random Walks		
Week 6	Wed	Feb. 24	Lecture 10	Random Walks	D-6	Homework 4 (I)
	Mon	Mar. 1	Lecture 11	Random Walks		
Week 7	Wed.	Mar. 3	Lecture 12	RW - Optimization	D-7	Homework 5 (G)
	Mon	Mar. 8	Lecture 13	Optimization		
Week 8	Wed	Mar. 10	Lecture 14	Optimization	D-8	
	Mon	Mar. 15	Lecture 15	Optimization		
Week 9	Wed.	Mar. 17	Lecture 16	Optimization	D-9	Homework 6 (I)
	Fri.	Mar. 19				**Mid-semester video due**
	Mon	Mar. 22	SPRING BREAK			
Week 10	Wed	Mar. 24	SPRING BREAK			
	Mon	Mar. 29	Lecture 17	Optimization		
Week 11	Wed	Mar. 31	Lecture 18	Optimization	D-10	Homework 7 (G)
	Mon	Apr. 5	Lecture 19	Maximum Likelihood		
Week 12	Wed.	Apr. 7	Lecture 20	Maximum Likelihood	D-11	
	Mon	Apr. 12	Lecture 21	Maximum Likelihood		
Week 13	Wed	Apr. 14	Lecture 22	Maximum Likelihood	D-12	Homework 8 (I)
	Mon	Apr. 19	Lecture 23	Stochastic processes		
Week 14	Wed	Apr. 21	Lecture 24	Stochastic processes	D-13	Homework 9 (G)
	Mon	Apr. 26	Lecture 25	Report prep + SDEs		
Week 15	Wed	Apr. 28	Lecture 26	Stochastic processes	D-14	
	Mon	May 3	Lecture 27	Control and command		
Week 16	Wed	May 5	Lecture 28	Video prep + Control	D-15	
	Fri	May 7				**Final report due**
Week 17	Thu	May 13				**Video Project due**

This is an anticipated schedule. It can change during the semester.

(I) = individual
(G) = group