## MATH 154 - PROBABILITY THEORY, SPRING 2018 TENTATIVE SCHEDULE

Day	Topic
M, Jan 22	HW 1 out Administrivia, introduction
W, Jan 24	Events and probability spaces (Chapter 1)
F, Jan 26	Events and probability spaces (Chapter 1)
M, Jan 29	HW 1 due, HW 2 out Random variables (Chapter 2)
W, Jan 31	Discrete random variables (Chapter 2)
F, Feb 2	Continuous random variables (Chapter 2)
M, Feb 5	HW 2 due, HW 3 out Joint distributions, Monte-Carlo simulations (Chapter 2)
W, Feb 7	Probability mass functions, independence (Chapter 3)
F, Feb 9	Expectation of a random variable (Chapter 3)
M, Feb 12	HW 3 due, HW 4 out Indicators, some examples (Chapter 3)
W, Feb 14	Joint and conditional distributions (Chapter 3)
F, Feb 16	Random walks (Chapter 3)
M, Feb 19	President's Day: no class.
W, Feb 21	HW 4 due, HW 5 out Continuous r.v.: independence and expectation (Chapter 4)
F, Feb 23	Continuous random variables: examples (Chapter 4)
M, Feb 26	HW5 due, HW 6 out Continuous r.v.: joint distributions (Chapter 4)
W, Feb 28	Continuous r.v.: conditional distributions (Chapter 4)
F, Mar 2	Functions and sums of continuous r.v. (Chapter 4)
M, Mar 5	HW 6 due, HW 7 out, Midterm out (due March 6) Generating functions (Chapter 5)
W, Mar 7	Generating functions (Chapter 5)
F, Mar 9	Generating functions (Chapter 5)
Mar 12-16	Spring break: no class.
M, Mar 19	HW 7 due, HW 8 out Chebyshev's inequality
W, Mar 21	Central limit theorem
F, Mar 23	Central limit theorem
M, Mar 26	HW 8 due, HW 9 out More on the central limit theorem
W, Mar 28	More on the central limit theorem
F, Mar 30	More on the central limit theorem
M, Apr 2	HW 9 due, HW 10 out Markov chains (Chapter 6)
W, Apr 4	Markov chains (Chapter 6)
F, Apr 6	Markov chains (Chapter 6)
M, Apr 9	HW 10 due, HW 11 out Markov chains (Chapter 6)
W, Apr 11	Markov chains (Chapter 6)
F, Apr 13	Markov chains (Chapter 6)
M, Apr 16	HW 11 due, HW 12 out Markov chains or further topics
W, Apr 18	Markov chains or further topics
F, Apr 20	Markov chains or further topics
M, Apr 23	HW 12 due Markov chains or further topics
W, Apr 25	Final out (due April 26) Markov chains or further topics

 $Date \hbox{: January 10, 2018.}$