DATE	DUE	TOPIC
M 8.29	201	1.1: Course introduction: what is probability?
T 8.30		1.2: Probability spaces
W 8.31		1.3: Basic properties of probability spaces
R 9.1		Activity 1: Review of functions and inequalities
M 9.5		No class - Labor Day
T 9.6		1.3: Inclusion-exclusion problems
W 9.7		1.4: Conditional probability and independence
R 9.8	1-12	1.5: Law of Total Probability and Bayes' Law
M 9.12		2.1-2.2: Discrete random variables
T 9.13		2.3: Combinations and permutations
W 9.14		2.3: More combinatorics; hypergeometric random variables
R 9.15	13-26	Activity 2: Charts and pictures for I-E / Bayes style problems
M 9.19		2.4: Bernoulli processes and associated random variables
T 9.20		Review for Exam 1
W 9.21	EXAM 1	(covers Chapters 1 and 2)
R 9.22	27-46	Activity 3: Review of derivatives and integrals
M 9.26		3.1-3.2: Continuous random variables
T 9.27		3.3: Transformations of real-valued random variables I
W 9.28		3.3: Transformations of real-valued random variables II
R 9.29	47-52	Activity 4: Review of series formulas
M 10.3		3.4: The Poisson process and associated random variables
T 10.4		3.5: The gamma function
W 10.5		3.6: Normal distributions
R 10.6	53-63	Activity 5: Review of multivariable calculus
M 10.10		3.7: Stirling's formula
T 10.11		Review for Exam 2
W 10.12	EXAM 2	(covers Chapter 3)
R 10.13	64-71	4.1-4.2: Discrete joint distributions
M 10.17		Activity 6: Discrete joint distributions
T 10.18		4.3-4.4: Transformations of discrete joint distributions
W 10.19		5.1: Continuous joint distributions I
R 10.20		Activity 7: Continuous joint distributions
M 10.24	72-83	5.2: Continuous joint distributions II
T 10.25		5.3: Conditional densities
W 10.26		5.4: Transformations in higher-dimensions I
R 10.27	84-96	5.4: Transformations in higher-dimensions II
M 10.31		Activity 8: Practicing transformation problems
T 11.1		Review for Exam 3
W 11.2	EXAM 3	(covers Chapters 4 and 5)
R 11.3	97-112	6.1: Expected value
M 11.7		6.1: Properties of expected value
T 11.8		6.1: LOTUS
W 11.9		6.2: Variance and covariance
R 11.10	113-121	Activity 9: Medians, means, modes and quartiles
M 11.14		6.3: Conditional expectation
T 11.15		7.1: Probability generating functions
W 11.16		7.2: Moments and moment generating functions
R 11.17	122-132	Activity 10: Review of matrix operations
M 11.21		7.2: Applications of moment generating functions
T 11.22	133-141	7.2-7.3: Joint moment-generating functions
W 11.23		No class - Thanksgiving
R 11.24		No class - Thanksgiving
M 11.28		7.3: Bivariate normal distributions
		Review for Exam 4
T 11.29	TYANA A	(covers Chapters 6 and 7)
T 11.29 W 11.30		
	EXAM 4 142-158	8.1-8.2: Markov and Chebyshev inequalities; laws of large numbers
W 11.30		
<b>W 11.30</b> R 12.1		<ul><li>8.1-8.2: Markov and Chebyshev inequalities; laws of large numbers</li><li>8.3: Central Limit Theorem: statement and proof</li><li>8.3: Central Limit Theorem: applications</li></ul>
W 11.30 R 12.1 M 12.5		8.3: Central Limit Theorem: statement and proof
W 11.30 R 12.1 M 12.5 T 12.6		8.3: Central Limit Theorem: statement and proof 8.3: Central Limit Theorem: applications