	HW	
DATE	DUE	SECTION & TOPIC
M 1.9		1.1-1.2: introduction to Markov chains
T 1.10		1.2: basic examples of Markov chains
W 1.11		1.3-1.4: operations with transition matrices
R 1.12		Activity: practice problems with Markov chains
M 1.16		No class - Martin Luther King Day
T 1.17		1.5: recurrence and transience
W 1.18		1.5: properties of recurrent states
R 1.19		1.6: absorption probabilities
M 1.23		Activity: practice problems with Markov chains
T 1.24		Preparation for first group presentation
W 1.25	1-13	Preparation for first group presentation
R 1.26		Preparation for first group presentation
M 1.30		Markov chains: first group presentation
T 1.31		2.1: birth-death chains
W 2.1		2.1-2.2: random walk on $\mathbb{Z}$
R 2.2		2.2: more about random walk on $\mathbb{Z}$
M 2.6		2.2: applications of random walk on $\mathbb{Z}$
Т 2.7		Activity: problems with birth-death chains and random walk
W 2.8		Review
R 2.9	14-18	<b>EXAM 1:</b> covers Chapters 1 and 2
M 2.13		3.1: elementary properties of stationary distributions
T 2.14		3.2: Cesáro convergence
W 2.15		3.2: mean return times
R 2.16		3.2: null recurrent and positive recurrent states
M 2.20		3.2-3.3: existence and uniqueness of stationary distributions
T 2.21	19-26	3.3: convergence properties and periodicity
W 2.22		3.4: calculations of stationary distributions I
R 2.23		J
		3.4: calculations of stationary distributions II
M 2.27		3.4: calculations of stationary distributions II How Google works
M 2.27 T 2.28		3.4: calculations of stationary distributions II How Google works Preparation for second group presentation
M 2.27 T 2.28 W 3.1		3.4: calculations of stationary distributions II How Google works Preparation for second group presentation Activity: random walk in higher dimensions
M 2.27 T 2.28 W 3.1 R 3.2	27-36	3.4: calculations of stationary distributions II How Google works Preparation for second group presentation Activity: random walk in higher dimensions <b>Markov chains: second group presentation</b>
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6	27-36	3.4: calculations of stationary distributions II How Google works Preparation for second group presentation Activity: random walk in higher dimensions <b>Markov chains: second group presentation</b>
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6 to	27-36	3.4: calculations of stationary distributions II How Google works Preparation for second group presentation Activity: random walk in higher dimensions <b>Markov chains: second group presentation</b> <i>No class - Spring Break</i>
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6 to R 3.9	27-36	3.4: calculations of stationary distributions II How Google works Preparation for second group presentation Activity: random walk in higher dimensions <b>Markov chains: second group presentation</b> <i>No class - Spring Break</i>
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6 to R 3.9 M 3.13	27-36	3.4: calculations of stationary distributions II   How Google works   Preparation for second group presentation   Activity: random walk in higher dimensions   Markov chains: second group presentation   No class - Spring Break   Review
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6 to R 3.9 M 3.13 T 3.14	27-36	3.4: calculations of stationary distributions IIHow Google worksPreparation for second group presentationActivity: random walk in higher dimensionsMarkov chains: second group presentationNo class - Spring BreakReviewApplications of probability to bracketology
M 2.27 T 2.28 W 3.1 R 3.2 M 3.6 to R 3.9 M 3.13 T 3.14 W 3.15	27-36	3.4: calculations of stationary distributions IIHow Google worksPreparation for second group presentationActivity: random walk in higher dimensionsMarkov chains: second group presentationNo class - Spring BreakReviewApplications of probability to bracketologyEXAM 2: covers Chapter 3

	HW	
DATE	DUE	SECTION & TOPIC
M 3.20		4.1-4.2: introduction to CTMCs
T 3.21		4.2: Q-matrices and matrix exponentiation
W 3.22		4.2: computations with finite state space CTMCs
R 3.23		Activity: CTMCs with finite state space
M 3.27		4.3: jump processes
T 3.28		4.4: class structure of CTMCs
W 3.29	37-41	4.5: birth-death processes
R 3.30		6.1: Introduction to Brownian motion
M 4.3		6.2-6.3: Basic properties of Brownian motion
T 4.4		Preparation for third group presentations
W 4.5	42-47	Preparation for third group presentations
R 4.6		Third group presentations
M 4.10		Third group presentations
T 4.11		Review
W 4.12	48-50	<b>EXAM 3:</b> covers Chapters 4, 5 and 6
R 4.13		No class - mid-semester recess
M 4.17		
to		Preparation for final presentations
R 4.20		
M 4.24		
to		Final presentations
R 4.27		