MA103 Mathematical Modeling and Intro to Calculus – Spring 2009

WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	5-Jan 09	6-Jan 09	7-Jan 09	8-Jan 09	9-Jan 09
	REORGANIZATION WEEK			Lesson 1: Introduction to Mathematical Modeling I	Lesson 2: Introduction to Mathematical Modeling II
2	12-Jan 09	13-Jan 09	14-Jan 09	15-Jan 09	16-Jan 09
	Lesson 3: Introduction to Discrete Dynamical Systems	Lesson 4: Arithmetic Sequences	Lesson 5: Modeling with Technology	Lesson 6: Geometric Sequences	No Class
3	19-Jan 09	20-Jan 09	21-Jan 09	22-Jan 09	23-Jan 09
	Lesson 7: Homogeneous vs Non-Homogeneous DDS	Lesson 8: Equilibrium Points	Lesson 9: Long Term Behavior and Limits	Lesson 10: Closed Form Solutions I	No Class
4	26-Jan 09	27-Jan 09	28-Jan 09	29-Jan 09	30-Jan 09
	Lesson 11: Closed Form Solutions II	Lesson 12: The Linear Stability Theorem	Lesson 13: CEP	Lesson 14: Non-Linear DDS	PSL 1: Guest Speaker
5	2-Feb 09	3-Feb 09	4-Feb 09	5-Feb 09	6-Feb 09
	PSL 2: Recursion Equations	Lesson 15: Written Partial Review I (In-Class, 250)	No Class	Lesson 16: Project Day	Lesson 17: Introduction to Vectors I
6	9-Feb 09	10-Feb 09	11-Feb 09	12-Feb 09	13-Feb 09
	Lesson 18: Introduction to Vectors II	Lesson 19: Matrix Algebra	Lesson 20: The Inverse of a Matrix Project Part I (125)	Lesson 21: Solving Systems of Linear Equations I (Matrix Inverse)	PSL 3: Math Tech Lab I (Mathematica)
7	16-Feb 09	17-Feb 09	18-Feb 09	19-Feb 09	20-Feb 09
	President's Day (No Class)	Lesson 22: Solving Systems of Linear Equations II (Row Reduction I)	IT-105 Lab No Class	IT-105 Lab No Class	Lesson 23: Solving Systems of Linear Equations III (Row Reduction II)
8	23-Feb 09	24-Feb 09	25-Feb 09	26-Feb 09	27-Feb 09
	Lesson 24: Modeling with Matrices I (Networks & Images)	Lesson 25: Modeling with Matrices II (Networks & Images)	Lesson 26: Modeling with Matrices III (Networks & Images)	Lesson 27: Systems of Recursion Equations I	No Class
9	2-Mar 09	3-Mar 09	4-Mar 09	5-Mar 09	6-Mar 09
	Lesson 28: Systems of Recursion Equations II	Lesson 29: Modeling with Matrices IV (Markov Chains)	IT-105 Lab No Class	IT-105 Lab No Class	Lesson 30: Modeling with Matrices V (Age Dependent Populations)
10	9-Mar 09	10-Mar 09	11-Mar 09	12-Mar 09	13-Mar 09
	Lesson 31: Eigenvalues and Eigenvectors I	Lesson 32: Eigenvalues and Eigenvectors II	PSL 4: Eigenvalues and Eigenvectors	Lesson 33: Analytic Solutions to Systems of Recursion Equations I	No Class
11	16-Mar 09	17-Mar 09	18-Mar 09	19-Mar 09	20-Mar 09
	Spring Break (No Class)				
12	23-Mar 09	24-Mar 09	25-Mar 09	26-Mar 09	27-Mar 09
	Lesson 34: Analytic Solutions to Systems of Recursion Equations II	Lesson 35: Project Day	PSL 5: Modeling with Systems of Recursion Equations	Lesson 36: Written Partial Review II (In-Class, 250)	No Class
13	30-Mar 09	31-Mar 09	1-Apr 09	2-Apr 09	3-Apr 09
	Lesson 37: Properties of Functions	Lesson 38: Limits	Lesson 39: Continuity Project Part II Due (125)	Lesson 40: Average and Instantaneous Rates of Change (Velocity)	PSL 6: Math Tech Lab II (Excel)
14	6-Apr 09	7-Apr 09	8-Apr 09	9-Apr 09	10-Apr 09
	Lesson 41: Derivatives and Rates of Change	Lesson 42: Derivatives of Linear Functions	IT-105 Lab No Class	IT-105 Lab No Class	Lesson 43: Linear Functions (Parameter Estimation)
15	13-Apr 09	14-Apr 09	15-Apr 09	16-Apr 09	17-Apr 09
	Lesson 44: Linear Functions (Modeling)	Lesson 45: Model Evaluation I (Fit of Functions, SSE, r^2)	Lesson 46: Model Evaluation II (Fit of Functions, SSE, r^2)	Lesson 47: Derivatives of Power Functions	Lesson 48: Power Functions (Parameter Estimation)
16	20-Apr 09	21-Apr 09	22-Apr 09	23-Apr 09	24-Apr 09
	Lesson 49: Power Functions (Modeling)	Lesson 50: Exponential Functions (Parameter Estimation)	Lesson 51: Exponential Functions (Modeling)	Lesson 52: Written Partial Review III (In-Class, 250)	No Class
17	27-Apr 09	28-Apr 09	29-Apr 09	30-Apr 09	1-May 09
	Lesson 53: Derivatives of Exponential and Trig Functions	IT-105 Lab No Class	IT-105 Lab No Class	Reading Day (No Classes)	Lesson 54: Trig Functions (Parameter Estimation)
18	4-May 09	5-May 09	6-May 09	7-May 09	8-May 09
	Lesson 55: Trig Functions (Modeling)	Lesson 56: Optimizing Fit of Models I (Solver)	PSL 7: Optimizing Fit of Models II (Solver)	PSL 8: Course Review	No Class
T	11-May 09	12-May 09	13-May 09	14-May 09	15-May 09
	TERM END EXAMS				

as of: 1/7/2009