

DATE		HW DUE	TOPIC
T 1.12			1.1: Course introduction; review of limits
R 1.14			1.2-1.3: Review of derivatives and integrals
F 1.15			<i>Mathematica</i> lab 1: introduction and troubleshooting
T 1.19		(1.4) 1-22	2.1-2.2: Rewriting the integrand
R 1.21		(1.4) 23-68	2.3-2.4: Elementary u -substitutions
F 1.22		Lab 1	<i>Mathematica</i> lab 2: plots and differential calculus
T 1.26		(2.5) 1-6	2.4: Complicated u -substitutions
R 1.28	Q1	(2.5) 7-19	3.1: Integration by parts
F 1.29		Lab 2	<i>Mathematica</i> lab 3: integration
T 2.2	Q2	(2.5) 20-34	3.2: Partial fractions
R 2.4		(3.5) 1-19	4.1-4.2: Improper integrals I
F 2.5		Lab 3	<i>Mathematica</i> lab 4: partial fractions
T 2.9		(3.5) 20-39	4.3-4.4: Improper integrals II
R 2.11	Q3	(4.5) 1-15	Review for Exam 1
F 2.12		Lab 4	<i>Mathematica</i> lab 5: improper integrals
T 2.16	E1	(4.5) 16-25	EXAM 1: covers Chapters 2-4
R 2.18			5.1: Area between curves
F 2.19		Lab 5	<i>Mathematica</i> lab 6: area
T 2.23	Q4		5.2: Volume
R 2.25		(5.8) 1-13	5.2-5.4: Volume and arc length
F 2.26		Lab 6	5.2-5.3: Review of techniques to evaluate volumes
T 3.1	Q5	(5.8) 14-30	5.7: Applications of integration to probability
R 3.3		(5.8) 31-37	6.1: Introduction to parametric equations
F 3.4			<i>Mathematica</i> lab 7: applications of integration
T 3.8			<i>No class - Spring break</i>
R 3.10			<i>No class - Spring break</i>
F 3.11			<i>No class - Spring break</i>
T 3.15	Q6	(5.8) 51-58	6.2: Parametric equations of common graphs
R 3.17		(6.5) 1-29	6.3: Calculus of parametric equations
F 3.18		Lab 7	<i>Mathematica</i> lab 8: parametric equations
T 3.22	E2	(6.5) 30-54	EXAM 2: covers Chapters 5-6
R 3.24			<i>No class - Mid-semester recess</i>
F 3.25			<i>No class - Mid-semester recess</i>
T 3.29			7.1-7.2: Introduction to infinite series
R 3.31			7.3-7.5: Convergence and divergence
F 4.1		Lab 8	<i>Mathematica</i> lab 9: series
T 4.5	Q7	(7.6) 1-20	8.1-8.2: Geometric series
R 4.7		(7.6) 21-36	8.3-8.4: Applications of geometric series; Ratio Test
F 4.8		Lab 9	<i>Mathematica</i> lab 10: the Integral Test
T 4.12	Q8	(8.5) 1-18	9.1-9.3: The Integral Test; p -series
R 4.14	Q9	(8.5) 19-27	9.4: The Comparison Test
F 4.15		Lab 10, (8.5) 28-38	10.1-10.3: Alternating series
T 4.19		(9.5) 1-23	10.3-10.4: Absolute and conditional convergence
R 4.21	Q10	(10.7) 1-34	11.1: Introduction to power series
F 4.22			Review of series tests
T 4.26		(11.4) 1-21	11.2: Applications of power series
R 4.28	E3	(11.4) 22-69	EXAM 3: covers Chapters 7-11
F 4.29			Review for Final
R 5.5			FINAL EXAM: cumulative; 8:00-9:40 AM in STR 212