

DATE	LECTURE TOPIC <i>ASSIGNMENT DUE</i>	DATE	LECTURE TOPIC <i>ASSIGNMENT DUE</i>
M 8.25	1.1: Review of Calculus 1 & 2	M 9.22	3.3: Conic sections (Ch. 3) 5, 11, 14, 20, 23, 24
T 8.26	2.1: Basic set theory	T 9.23	3.5: Limits (Ch. 3) 28, 32, 34, 39, 40, 41, 43, 45, 58, 60
W 8.27	2.2: Vectors (Ch. 1) 2, 5, 10, 13	W 9.24	3.5-3.6: Limits and continuity (Ch. 3) 68, 69, 76, 77
R 8.28	Mathematica demo: introduction (Ch. 1) 15, 19, 23, 28, 34, 38	R 9.25	Review for Exam 1 (Ch. 3) 96, 98, 102, 103, 110, 114
M 9.1	No class - Labor Day	M 9.29	EXAM 1: covers Chapters 2 & 3 (Ch. 3) 119, 122, 126
T 9.2	2.3: Dot product (Ch. 2) 3, 5	T 9.30	4.1: The total derivative Mathematica Lab 3
W 9.3	2.4: Matrices and matrix operations (Ch. 2) 8, 9, 12	W 10.1	4.2: Partial derivatives
R 9.4	2.5: Determinants (Ch. 2) 15, 18, 23, 26	R 10.2	4.3: Linear approximation (Ch. 4) 2, 3, 5, 9, 14
M 9.8	2.6: Cross products Mathematica Lab 1	M 10.6	4.4: Chain rule (Ch. 4) 15, 20, 23, 24, 33, 38, 43
T 9.9	Mathematica demo: vectors and matrices (Ch. 2) 30, 34, 37, 39	T 10.7	4.5: Directional derivatives and gradients (Ch. 4) 51, 54, 58, 63
W 9.10	2.7: Equations of lines and planes (Ch. 2) 40, 45, 47	W 10.8	Mathematica demo: differentiation (Ch. 4) 70, 75, 78
R 9.11	2.8: Coordinate systems (Ch. 2) 49, 52, 54	R 10.9	5.1: Motion in higher dimensions I (Ch. 4) 88, 91, 97, 101
M 9.15	2.9: Topology of $\mathbb{R}^n$ (Ch. 2) 56, 60, 61, 64, 71	M 10.13	No class - Fall Break
T 9.16	3.1: Functions from $\mathbb{R}^n \rightarrow \mathbb{R}^m$ Mathematica Lab 2	T 10.14	No class - Fall Break
W 9.17	3.2: Graphs of functions $\mathbb{R}^n \rightarrow \mathbb{R}^m$ (Ch. 2) 72, 74, 78, 81, 83	W 10.15	5.2: Components of acceleration (Ch. 4) 105, 107, 115, 118
R 9.18	3.2: More on graphs (Ch. 2) 85, 88, 90	R 10.16	5.3: Re-parameterizing curves Mathematica Lab 4

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M 10.20	5.3: Arc length parametrization (Ch. 5) 2, 5, 9, 12, 13	M 11.17	8.1: Paths and parametrizations (Ch. 7) 50, 54, 58, 62
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R 10.23	6.1: Classifying local extrema (Ch. 5) 37, 40, 43, 46, 49	R 11.20	8.2-8.3: Reparametrization and conservativity (Ch. 8) 15, 17, 18, 20
M 10.27	6.2: Absolute extrema (Ch. 6) 3, 4, 6	M 11.24	8.3: More on conservativity (Ch. 8) 29, 32, 35, 37
T 10.28	6.3: Lagrange's method <i>Mathematica Lab 5</i>	T 11.25	8.4: Green's Theorem <i>Mathematica Lab 8</i>
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R 10.30	EXAM 2: covers Chapters 4-6 (Ch. 6) 21, 23, 26, 30, 33	R 11.27	No class - Thanksgiving
M 11.3	7.1: Introducing double integrals	M 12.1	8.5: Computing area with Green's Theorem (Ch. 8) 64, 66, 69, 72, 74, 79
T 11.4	7.2: Double integrals <i>Mathematica Lab 6</i>	T 12.2	Review for Exam 3 (Ch. 8) 81, 84, 86, 89, 92
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R 11.6	7.4: Fubini's Theorem	R 12.4	Review for Final Exam
M 11.10	7.4-7.5: Change of variables with Jacobians I (Ch. 7) 8, 10, 11, 14, 17	M 12.8	FINAL EXAM: cumulative (2:00-3:40 PM in SCI 132) <i>Mathematica Lab 9</i>
T 11.11	7.5: Change of variables with Jacobians II (Ch. 7) 20, 21, 24, 27		
W 11.12	7.6: Triple integrals I (Ch. 7) 29, 30, 33, 36		
R 11.13	7.6: Triple integrals II <i>Mathematica Lab 7</i> (Ch. 7) 43, 44, 47		