

Math 283 Timeline, Fall 2012

	Monday	Wednesday	Friday
Week 1 Aug 20	Intro to course Review: Derivatives	Review: Two-Variable Functions, 3D Graphs	Review: Contours, Linear Functions,
Week 2 Aug 27	Review Linear Functions (cont.)	14.1: The Partial Derivative. 14.2: Computing Partial Derivatives Algebraically	14.3: Local Linearity and the Differential
Week 3 Sept 3	Holiday-Labor Day	14.4: Gradients and Directional Derivatives.	14.4: cont.
Week 4 Sept 10	Test 1 (Review, 14.1 – 14.4)	14.5: Gradients and Directional Derivatives in Space	14.6: The Chain Rule
Week 5 Sept 17	14.7: Second Order Partial Derivatives and Taylor Polynomials	15.1: Local Extrema	15.2: Optimization
Week 6 Sept 24	15.3: Constrained Optimization: LaGrange Multipliers	Test 2-Take Home (Sections 14.5 – 15.3)	15.3: Constrained Optimization: LaGrange Multipliers (cont.)
Week 7 Oct 1	Test 2 DUE (at the beginning of class)	16.1: The Definite Integral of a Function of Two Variables	Flex Day No classes
Week 8 Oct 8	Flex Day No classes	16.2: Iterated Integrals	16.3: Triple Integrals
Week 9 Oct 15	16.4: Double Integrals in Polar Coordinates	16.5: Integrals in Cylindrical Coordinates	16.5: cont. Integrals in Spherical Coordinates
Week 10 Oct 22	16.7: Change of Variables	16.7: cont.	Test 3 (Sections 16.1 – 16.5, 16.7)
Week 11 Oct 29	17.1: Parameterized Curves 17.2: Motion, Velocity and Acceleration	17.3: Vector Fields 17.4: The Flow of a Vector Field	18.1: The Idea of a Line Integral
Week 12 Nov 5	18.2: Line Integrals over Parameterized Curves	18.3: Gradient Fields and Path Independence	18.4: Path Dependent Fields and Green's Theorem
Week 13 Nov 12	Holiday-Veteran's Day	18.4: continued	Summary and Review
Week 14 Nov 19	Test 4 (Sections 17.1 – 18.4)	19.1: The Idea of a Flux Integral	Holiday-Thanksgiving
Week 15 Nov 26	19.2: Flux Integrals for Graphs, Cylinders, Spheres	20.1: The Divergence of a Vector Field	20.2: The Divergence Theorem
Week 16 Dec 3	20.3: The Curl of a Vector Field	20.4: Stokes' Theorem	20.4: cont. Summary of Fundamental Theorems
Week 17 Dec 10	Test 5 (Sections 19.1 – 20.4)	Review for Final	Review for Final
Week 18 Dec 17		Final Exam 9:45 – 11:45 am	