

## Lecture Calendar: Math 5C, Spring 2010

Anything labeled “course notes” refers to documents the instructor wrote and posted on the webpage.

Date	Topic Covered	Sections in the Text
March 29	Line Integrals	5.2, 5.3
March 31	Double Integrals	6.1, 6.2, 6.3
Apr 2	Polar Coordinates	6.4
Apr 5	Surfaces, Area Elements	7.1, 7.3
Apr 7	Surface Integrals	7.3, 7.4
Apr 9	Triple Integrals	6.5
Apr 12	Cylindrical, Spherical	6.5
Apr 14	Vector Derivatives	4.6
Apr 16	Exam 1	all the above except 4.6
Apr 19	Independence of Path	5.4
Apr 21	Green’s Theorem	8.1
Apr 23	Divergence Theorem	8.2
Apr 26	Stokes’ Theorem	8.3
Apr 28	Intro to Infinite Series	10.1, 10.2, 10.3
Apr 30	Convergence Tests	10.4, 10.5, 10.6
May 3	Intermediate Examples of Series	Course notes
May 5	Power Series	10.8
May 7	Exam 2	8.1-8.3, 10.1-10.6, Course notes
May 10	Taylor Series	10.8, 10.9
May 12	Approximation with Taylor Series	10.7, 10.9
May 14	Applications of Taylor Series	10.10
May 17	Fourier Series: Linear Algebra Aspects	11.1
May 19	Fourier Series: Analysis Aspects	11.2
May 21	Intro to Harmonic Functions	Course notes
May 24	Solving Laplace’s Equation	12.5
May 26	Solving Laplace’s Equation, II	12.5
May 28	Exam 3	10.7-10.10, 11.1, 11.2, 12.5
May 31	HOLIDAY	none
Jun 2	Evaluating Series and Integrals	10.10, 11.2
Jun 4	Evaluating Series and Integrals, II	Course notes
Jun 9	FINAL EXAM, 4 - 7 PM	anything we’ve covered!