

### Math 105 Fall 2005 Schedule

Week Starting	Text Sections	Other Activities
Sep 5	1.1: Functions, Calculus Style 1.2: Graphs 1.3: A Field Guide to Elementary Functions 1.4: Amount Functions and Rate Functions	Lab Sign-up Algebra Diagnostic
Sep 12	1.5: Estimating Derivatives 1.6: The Geometry of Derivatives 1.7: The Geometry of Higher-Order Derivatives 2.1: Defining the Derivative	MSW Reviews: Algebra (Wed 7 p.m. Pettengill G65) (Thur 7 p.m. Pettengill G65)
Sep 19	2.2: Derivatives of Powers and Polynomials 2.3: Limits 2.4: Using Derivative and Antiderivative Formulas	Lab: Understanding Derivatives Graphically
Sep 26	2.5: Differential Equations; Modeling Motion 2.6: Derivatives of Exponentials, Logs; Modeling Growth 2.7: Derivatives of Trig Functions; Modelling Oscillation	MSW Reviews: Trig, inverses (Wed 7 p.m. Pettengill G65) (Thur 7 p.m. Pettengill G65)
Oct 3	3.1: Algebraic Combinations: Product Rule and Quotient Rule Review	Lab: Limits and Finding Derivatives Analytically Review (Wed 7 p.m. Pettengill G52) Exam I (Friday in class)
Oct 10	3.2: Composition and Chain Rule 3.3: Implicit Functions, Implicit Differentiation	
Oct 17 (MT only)	3.4: Inverse Functions and their Derivatives	
Oct 24	3.5: Miscellaneous Derivatives and Antiderivatives 4.1: Slope Fields; More Differential Equation Models 4.2: More on Limits: Infinity and L'Hopital's Rule	Lab: Techniques of Differentiation
Oct 31	4.3: Optimization 4.6: Newton's Method	
Nov 7	4.7: Taylor Polynomials Review	Lab: Optimization Review (Wed 7 p.m. Pettengill G52) Exam II (Friday in class)
Nov 14	4.8: Why Continuity Matters 4.9: Why Differentiability Matters; MVT 5.1: Areas and Integrals	
Nov 21	November Break	
Nov 28	5.2: The Area Function 5.3: The Fundamental Theorem of Calculus 5.6: Approximating Sums: Integral as Limit	Lab: Areas and Integrals
Dec 5 (MTW only)	5.7: Working with Sums Review	Review I (Mon 7 p.m. Pettengill G52) Review II (Wed 7 p.m. Pettengill G52) Final Exam (Fri 8 a.m.)