### Math 105 Fall 2006 Schedule

| Week Starting | Text Sections | Other Activities |
|---|---|---|
| Sep 4 (W[R]F only) | 1.1: Functions, Calculus Style<br>1.2: Graphs | Lab Sign-up<br>Algebra Diagnostic |
| Sep 11 | 1.3: Field Guide to Elementary Functions<br>1.4: Amount Functions and Rate Functions<br>1.5: Estimating Derivatives | MSW Review: Algebra<br>  (Wed, Thu 7 p.m.)† |
| Sep 18 | 1.6: The Geometry of Derivatives<br>1.7: The Geometry of Higher-Order Derivatives<br>2.1: Defining the Derivative | Lab: Understanding<br>  Derivatives Graphically |
| Sep 25 | 2.2: Derivatives of Powers and Polynomials<br>2.3: Limits<br>2.4: Using Derivative and Antiderivative Formulas | |
| Oct 2 | 2.5: Differential Equations; Modeling Motion<br><br>Review | Lab: Limits, Finding<br>  Derivatives Analytically<br>Review (Wed 7 p.m.)*<br>Exam (Friday in class) |
| Oct 9 | 2.6: Derivatives of Exponentials, Logs;<br>2.7: Derivatives of Trig Functions; Modeling<br>3.1: Product and Quotient Rules | MSW Review: Trig and<br>  Inverses<br>  (Mon, Tue 7 p.m.)† |
| Oct 16 (M only) | 3.2: Composition and Chain Rule | |
| Oct 23 | 3.3: Implicit Functions; Implicit Differentiation<br>3.4: Inverse Functions and their Derivatives<br>3.5: Miscellaneous Derivatives and Antiderivatives | Lab: Techniques of<br>  Differentiation |
| Oct 30 | 4.2: More on Limits: Infinity and L'Hopital's Rule<br>4.3: Optimization | |
| Nov 6 | 4.6: Newton's Method<br>Review | Lab: Optimization<br>Review (Wed 7 p.m.)*<br>Exam (Friday in class) |
| Nov 13 | 4.5: Related Rates<br>4.8: Why Continuity Matters<br>4.9: Why Differentiability Matters; MVT | |
| Nov 20 | Thanksgiving Recess | |
| Nov 27 | 5.1: Areas and Integrals<br>5.2: The Area Function<br>5.3: The Fundamental Theorem of Calculus | Lab: Areas and Integrals |
| Dec 4 | 5.6: Approximating Sums; Integral as Limit<br>5.7: Working with Sums<br>Review | |
| Dec 11 | | Review I (Sun 7 p.m.)*<br>Review II (Mon 7 p.m)*<br>Final (Tue 8 a.m.) |

\* Reviews with asterisks (*) take place in Pettengill G52.
† Reviews with daggers (†) take place in Hathorn 104.