Math 10560 – Spring 2008
Syllabus by Date

01/16  Wed.  7.1. Inverse Functions
01/18  Fri.  7.2*. The Natural Logarithmic Function
01/21  Mon.  7.3*. The Natural Exponential Function
01/22  Tue.  Quiz 1
01/23  Wed.  7.4*. General Logarithmic and Exponential Function
01/25  Fri.  7.5. Exponential Growth and Decay

01/28  Mon.  7.6. Inverse Trigonometric Functions
01/29  Tue.  Quiz 2
01/30  Wed.  7.7. Hyperbolic Functions
02/01  Fri.  7.8. Indeterminate Forms and L’Hospital’s Rule

02/04  Mon.  8.1. Integration by Parts
02/05  Tue.  Quiz 3
02/06  Wed.  8.2. Trigonometric Integrals
02/08  Fri.  8.3. Trigonometric Substitution

02/11  Mon.  8.4. Integration of Rational Functions by Partial Fractions
02/12  Tue.  No Tutorial
02/13  Wed.  Review for Exam 1
02/14  Thu.  Exam 1
02/15  Fri.  8.5. Strategy for Integration

02/18  Mon.  8.7. Approximate Integrals
02/19  Tue.  Quiz 4
02/20  Wed.  8.8. Improper Integrals
02/22  Fri.  9.1. Arc Length

02/25  Mon.  9.2. Area of a Surface of Revolution
02/26  Tue.  Quiz 5
02/27  Wed.  9.3. Applications to Physics and Engineering
02/29  Fri.  10.2. Direction Fields and Euler’s Method

03/03  Mon.  Spring Break
03/04  Tue.  Spring Break
03/05  Wed.  Spring Break
03/07  Fri.  Spring Break

03/10  Mon.  10.3. Separable Equations
03/11  Tue.  Quiz 6
03/12  Wed.  10.5. Linear Equations
03/14  Fri.  12.1. Sequences

03/17  Mon.  Review for Exam 2
03/18  Tue.  Exam 2
03/19  Wed.  12.2. Series
03/21  Fri.  Easter Holiday
03/24  Mon.  Easter Holiday
03/25  Tue.  Quiz 7
03/26  Wed.  12.3. The Integral Test and Estimates of Sums
03/28  Fri.  12.4. The Comparison Tests

03/31  Mon.  12.5. Alternating Series
04/01  Tue.  Quiz 8
04/02  Wed.  12.6. Absolute Convergence and the Ratio and Root Tests
04/04  Fri.  12.7. Strategy for Testing Series

04/07  Mon.  12.8. Power Series
04/08  Tue.  Quiz 9
04/09  Wed.  12.9. Representations of Functions as Power Series
04/11  Fri.  12.10. Taylor and Maclaurin Series

04/14  Mon.  12.12. Applications of Taylor Polynomials
04/15  Tue.  Quiz 10
04/16  Wed.  11.1. Curves Defined by Parametric Equations
04/18  Fri.  11.2. Calculus with Parametric Curves

04/21  Mon.  Review for Exam 3
04/22  Tue.  Exam 3
04/23  Wed.  11.3. Polar Coordinates
04/25  Fri.  11.4. Areas and Lengths in Polar Coordinates

04/28  Mon.  Review for Final
04/30  Wed.  Review for Final

05/05  Mon.  Final Exam