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               MATHEMATICS 1100-006 --- Introduction to Calculus---Fall 2012
                            TENTATIVE SCHEDULE


    WEEK      DATE    LECTURE              TOPIC                    TEXTBOOK
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    I  1 I MO  8/27/12 I  1I 0.1,2: The Real Numbers, Order, Absolute Value, Distance  I
    I  1 I TU  8/28/12 I  2I 0.3,4: Exponents and Radicals, Polynomials and Factoring  I
    I  1 I TH  8/30/12 I  3I 0.5: Fractions and Rationalization, Review Chapter 0       I
    I  1 I FR  8/31/12 I  4I 1.1: The Cartesian Plane and the Distance Formula          I
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    I  2 I MO  9/ 3/12 I   I         N O        C L A S S                               I
    I  2 I TU  9/ 4/12 I  5I 1.2: Graphs of Equations                                  I
    I  2 I TH  9/ 6/12 I  6I 1.3: Lines in the Plane and Slope                         I
    I  2 I FR  9/ 7/12 I  7I 1.4: Functions                                            I
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    I  3 I MO  9/10/12 I  8I 1.5: Limits                                               I
    I  3 I TU  9/11/12 I  9I 1.6: Continuity, Review Chapter 1                         I
    I  3 I TH  9/13/12 I 10I 2.1: The Derivative and the Slope of a Graph              I Webwork 1 (1.1-1.6)
    I  3 I FR  9/14/12 I 11I 2.2: Some Rules for Differentiation                       I
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    I  4 I MO  9/17/12 I 12I 2.3: Rates of Change: Velocity and Marginals              I
    I  4 I TU  9/18/12 I 13I 2.4: The Product and Quotient Rules                       I
    I  4 I TH  9/20/12 I 14I 2.5: The Chain Rule                                       I Webwork 2 (2.1-2.4)
    I  4 I FR  9/21/12 I 15I 2.6: Higher-Order Derivatives                             I
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    I  5 I MO  9/24/12 I 16I 2.7: Implicit Differentiation                             I
    I  5 I TU  9/25/12 I 17I 2.8: Related Rates, Review Chapter 2                      I
    I  5 I TH  9/27/12 I 18I 3.1: Increasing and Decreasing Functions                 I Webwork 3 (2.5-2.8)
    I  5 I FR  9/28/12 I 19I 3.2: Extrema and the First-Derivative Test               I
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    I  6 I MO 10/ 1/12 I 20I 3.3: Concavity and the Second-Derivative Test            I
    I  6 I TU 10/ 2/12 I 21I Exam 1: Limits, Derivatives, Methods of Differentiation  I
    I  6 I TH 10/ 4/12 I 22I 3.4: Optimization Problems                               I Webwork 4 (3.1-3.4)
    I  6 I FR 10/ 5/12 I 23I 3.5: Business and Economics Applications                 I
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    I  7 I MO 10/ 8/12 I 24I 3.6: Asymptotes                                          I
    I  7 I TU 10/ 9/12 I 25I 3.7: Curve Sketching: A Summary                          I
    I  7 I TH 10/11/12 I   I         N O        C L A S S                             I
    I  7 I FR 10/12/12 I   I         N O        C L A S S                             I
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    I  8 I MO 10/15/12 I 26I 3.8: Differentials and Marginal Analysis, Review Chapter 3I
    I  8 I TU 10/16/12 I 27I 4.1: Exponential Functions                               I
    I  8 I TH 10/18/12 I 28I 4.2: Natural Exponential Functions                       I Webwork 5 (3.5-3.8)
    I  8 I FR 10/19/12 I 29I 4.3: Derivatives of Exponential Functions                I
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    I  9 I MO 10/22/12 I 30I 4.4: Logarithmic Functions                               I
    I  9 I TU 10/23/12 I 31I 4.5: Derivatives of Logarithmic Functions                I
    I  9 I TH 10/25/12 I 32I 4.6: Exponential Growth and Decay, Review Chapter 4       I Webwork 6 (4.1-4.6)
    I  9 I FR 10/26/12 I 33I 5.1: Antiderivatives and Indefinite Integrals            I
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    I 10 I MO 10/29/12 I 34I 5.2 Integration by Substitution and the General Power RuleI
    I 10 I TU 10/30/12 I 35I Exam 2: Applications of Differentiation, Natural Exponentials and Logarithms
    I 10 I TH 11/ 1/12 I 36I 5.3: Exponential and Logarithmic Integrals               I Webwork 7 (5.1-5.3)
    I 10 I FR 11/ 2/12 I 37I 5.4: Area and the Fundamental Theorem of Calculus        I
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    I 11 I MO 11/ 5/12 I 38I 5.5: The Area of a Region Bounded by Two Graphs          I
    I 11 I TU 11/ 6/12 I 39I 5.6: The Definite Integral as the Limit of a Sum         I Review Chapter 5
    I 11 I TH 11/ 8/12 I 40I 6.1: Integration by Parts and Present Value              I Webwork 8 (5.4-6.1)
    I 11 I FR 11/ 9/12 I 41I 6.2: Partial Fractions and Logistic Growth               I
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    I 12 I MO 11/12/12 I 42I 6.3: Integration Tables                                  I
    I 12 I TU 11/13/12 I 43I 6.4: Numerical Integration                               I
    I 12 I TH 11/15/12 I 44I 6.5: Improper Integrals, Review Chapter 6                 I Webwork 9 (6.3-6.5)
    I 12 I FR 11/16/12 I 45I 7.1: The Three-Dimensional Coordinate System             I
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    I 13 I MO 11/19/12 I 46I 7.2: Surfaces in Space                                   I
    I 13 I TU 11/20/12 I 47I Exam 3: Methods and Applications of Integration           I
    I 13 I TH 11/22/12 I   I         N O        C L A S S                             I
    I 13 I FR 11/23/12 I   I         N O        C L A S S                             I
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    I 14 I MO 11/26/12 I 48I 7.3: Functions of Several Variables                      I
    I 14 I TU 11/27/12 I 49I 7.4: Partial Derivatives                                 I
    I 14 I TH 11/29/12 I 50I 7.5: Extrema of Functions of Two Variables               I Webwork 10 (7.1-7.5)
    I 14 I FR 11/30/12 I 51I 7.6: Lagrange Multipliers                                I
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    I 15 I MO 12/ 3/12 I 52I 7.7: Least Squares Regression Analysis                   I
    I 15 I TU 12/ 4/12 I 53I 7.8: Double Integrals and Area in the Plane              I
    I 15 I TH 12/ 6/12 I 54I 7.9: Applications of Double Integrals, Review Chapter 7   I Webwork 11 (7.6-7.9)
    I 15 I FR 12/ 7/12 I 55I Final Exam Review                                        I
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