Math 151 – Weekly Schedule
Textbook: Calculus -- Texas A&M University, Custom Edition, by Stewart

Week 1
• Appendix J.1 – Vectors
• Appendix J.2 – The Dot Product

Week 2
• Appendix J.3 – Vector Functions and Parametric Curves
• Section 1.5 – Inverse Trigonometric Functions only
• Section 2.2 – The Limit of a Function

Week 3
• Section 2.3 – Calculating Limits Using the Limit Laws
• Section 2.5 – Continuity
• Section 2.6 – Limits at Infinity; Horizontal Asymptotes

Week 4
• Section 2.7 – Derivatives and Rates of Change
• Section 2.8 – The Derivative as a Function
• Section 3.1 – Derivatives of Polynomial and Exponential Functions

Week 5
• Section 3.2 – The Product and Quotient Rules
• Section 3.3 – Derivatives of Trigonometric Functions (exclude trigonometric limits)
• Exam 1 (Covering through Section 2.8)

Week 6
• Section 3.4 – The Chain Rule
• Section 3.5 – Implicit Differentiation (includes derivatives of inverse trig functions)
• Section 3.6 – Derivatives of Logarithmic Functions

Week 7
• Appendix K.1 – Derivatives of Vector Functions
• Appendix K.2 – Slopes and Tangents to Parametric Curves
• Section 3.7 – Rates of Change in the Natural and Social Sciences
• Section 3.8 – Exponential Growth and Decay

Week 8
• Section 3.9 – Related Rates
• Section 3.10 – Linear Approximations and Differentials

Week 9
• Section 4.1 – Maximum and Minimum Values
• Exam 2 (Covering through Section 3.10)

Week 10
• Section 4.2 – The Mean Value Theorem
• Section 4.3 – How Derivatives Affect the Shape of a Graph
• Section 4.4 – Indeterminate Forms and L’Hospital’s Rule
Week 11
• Section 4.4 continued
• Section 4.7 – Optimization Problems
• Section 4.9 – Antiderivatives

Week 12
• Section 5.1 – Areas and Distances
• Section 5.2 – The Definite Integral (includes sigma notation and Riemann sums)
• Section 5.3 – The Fundamental Theorem of Calculus

Week 13
• Section 5.3 continued
• Exam 3 (Covering through Section 5.2)
• Thanksgiving break in the Fall semester

Week 14
• Section 5.4 – Indefinite Integrals and the Net Change Theorem
• Section 5.5 – The Substitution Rule

Week 15
• Review and Final Exams