

**Suggested Exercises for 2012 – 2013 Spring Semester MATH 1350 Survey of Calculus**

(Chosen from the 12th Edition of the textbook)

**The goal of the course is for you to be able to solve the 287 exercises on this list.**

Section	Suggested Exercises Those requiring a computer are in [brackets].
3-1 Introduction to Limits	7, 8, 13, 15, 27, 29, 39, 41, 45, 49, 51, 67, 73
3-2 Infinite Limits and Limits at Infinity	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 17, 19, 21, 23, 25, 27, 31, [35], 39, 41, 51, 61, 67, 73
3-3 Continuity	11, 12, 13, 14, 27, 29, 35, 37, 39, 41, 43, 57, 73
3-4 The Derivative	1, 13, 19, 21, 27, 29, 31, 32, 33, 34, 35, 36, 39, 45, 46, 71
3-5 Basic Differentiation Properties	9, 11, 27, 29, 37, 41, 43, 45, 47, 51, 55, 73, 89
3-7 Marginal Analysis in Business and Economics	1, 5, 9, 13, 15, 25, 35, 39
4-1 The Constant $e$ and Continuous Compound Interest	[3], [5], [11], [17], [19], [21], [25], [27], [31], [33], [35]
4-2 Derivatives of Exponential and Logarithmic Functions	1, 3, 15, 17, 19, 27, 28, 35, 37, 39, 41, [51], [53]
4-3 Derivatives of Products and Quotients	11, 13, 17, 23, 25, 47, 53, 57, 61, 77, 83, 87
4-4 The Chain Rule	25, 29, 35, 39, 41, 45, 47, 55, 63, 71, 79, 91, [97]
5-1 First Derivative and Graphs	1, 3, 5, 6, 9, 11, 13, 15, 17, 19, 21, 23, 35, 37, 51, 53, 55, 59, 77, 89, 97
5-2 Second Derivative and Graphs	1, 3, 7, 9, 15, 16, 25, 35, 39, 47, 67, 77, 78, 79, 80, 85, 87
5-5 Absolute Maxima & Minima	1, 9, 21, 23, 29, 33, 41, 57, 63, 65
5-6 Optimization	1, 5, 7, 9, 11, 23, 25, 26, 30
6-1 Antiderivatives, Indefinite Integrals	1, 9, 11, 15, 17, 21, 31, 33, 41, 45, 47, 49, 51, 57
6-2 Integration by Substitution	3, 7, 9, 11, 15, 19, 21, 23, 25, 35, 55, 57, 71, 75
6-4 The Definite Integral	5, 7, 9, 11, 13, 27, 35, 39, 43, 45, 47, 49, 67
6-5 The Fundamental Theorem of Calculus	3, 5, 11, 13, 15, 17, 19, 23, 27, 29, 31, 33, 37, [41], [43], [47], 61, 63, 81, 84
7-1 Area between Curves	1, 3, 9, 13, 17, 19, 23, 33, 49, 53, 63, 65, 83, 85, 89
7-2 Applications in Business and Economics	1, 3, 9, 21, 23, 25, 27, 29, 31, 35, 37, 39, 43, 45, 47, 49, 51