



**MATH 151: Calculus for Business and Social Sciences**

**Textbook:** Brief Calculus, An Applied Approach, 8th Edition, Sullivan

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**Office hours:** MF 11-11:50

**From the Catalog:** Differential calculus, applications to max-min problems, integral calculus and applications.

**Prerequisites:** Satisfactory performance on placement exam, 2 years of high school algebra, 1 year of high school geometry.

**Course Objectives:**

The students taking the course should learn Differential Calculus and its applications to Business, Economics and Social Sciences. The main topics that will be emphasized in the course are

1. Differentiation and Integration of functions and their applications.
2. Exponential and Logarithmic Functions and their applications.

**SYLLABUS FOR SPRING 2008: MF 12:00-12:50**

**With recitations on T or W or R with Zhen Li or Sukjung Hwang**

Week	Date	Monday	Friday
1	1/14	2.1	2.2, 2.3
2	1/21	BREAK	2.3
3	1/28	2.4	2.5
4	2/04	3.1	3.2
5	2/11	3.3	3.4
6	2/18	REVIEW	EXAM 1
7	2/25	4.1	4.2
8	3/03	4.3	4.4, 4.8
9	3/10	4.5	4.6
10	3/17	BREAK	BREAK
11	3/24	4.7	EXAM 2
12	3/31	5.1	5.2
13	4/07	5.3	5.4
14	4/14	5.6	6.1
15	4/21	6.2	6.3
16	4/28	6.4	6.5

**Final Exam:** Week of May 5-9. Please Check!

## Suggested List of Problems

You do not need to solve all of the suggested problems, but you should try to do as many of them as possible to make sure that you have a good understanding of the material. Sometimes one of these problems may be assigned to you in your recitation session in the form of a Quiz.

2.1: 1-35 (odd), 39, 41

2.2: 1-39 (odd)

2.3: 1-9 (odd), 13, 19-51 (odd)

2.4: 1-43 (odd), 47, 49, 51, 55, 59, 61, 65, 71-89 (odd)

2.5: 1-15 (odd), 17, 21, 23, 25-71 (odd), 75, 81, 87

3.1: 1-45 (odd)

3.2: 1-31 (odd), 41, 43, 45, 47, 51

3.3: 1-49 (odd), 53, 57, 61

3.4: 1-27 (odd), 28, 29, 31, 33, 37

4.1: 1-47 (odd), 51, 53, 59, 61, 63, 67

4.2: 1-57 (odd), 61, 70

4.3: 1-41 (odd), 45, 50

4.4: 1-31 (odd)

4.5: 1-61 (odd), 65, 69

4.6: 3, 9, 11, 15, 17, 19, 23, 25, 27, 31-53 (odd), 59

4.7: 1-41 (odd)

4.8: 1, 5, 7, 9, 17, 19, 23, 25, 29, 33, 37, 39, 41, 45, 47

5.1: 9-25 (odd), 27, 31, 33, 35

5.2: 3, 5, 7, 9, 13, 19, 23, 25, 29, 33, 37

5.3: 1-12, 13, 17, 21, 25, 27, 29, 33, 37, 41, 43, 47, 49, 57, 61

5.4: 7-25 (odd), 29, 33, 35

5.6: 1-17 (odd)

6.1: 1-43 (odd), 47, 49, 58

6.2: 1-33 (odd), 37, 39

6.3: 1-17

6.4: 1-45 (odd), 49, 53

6.5: 1-33 (odd), 37