Ma 130: Applied Calculus – Tentative Schedule

Sections should be read before the lecture ~ Exercises are to be done before the following lecture.

Date	Day	Class	Assignment
Aug. 27	W	Course Overview, 1.1 Functions	
Aug. 29	F	1.2-1.6 Models	
Sept. 1	M	Labor Day	
Sept. 3	W	2.1-2.3 Limits and Continuity	
Sept. 5	F	2.1-2.3 (cont.)	
Sept. 8	M	Review	
Sept. 10	W	**Test 1**	**App Sets** (due before class)
Sept. 12	F	2.4 Derivatives	
Sept. 15	M	2.5 Basic Rules	
Sept. 17	W	3.2 Exponentials and Logs	
Sept. 19	F	3.3 Products and Quotients	
Sept. 22	M	3.4 Chain Rule	
Sept. 24	W	REACH Seminars—No Classes	
Sept. 26	F	8.2-8.3 Sines and Cosines	
Sept. 29	M	Review	
Oct. 1	W	**Test 2**	**App Sets** (due before class)
Oct. 3	F	3.5 Implicit Differentiation	
Oct. 6	M	3.6 Related Rates	
Oct. 8	W	3.6 (cont.)	
Oct. 10	F	4.1 First Derivatives and Local Extrema	
Oct. 13	M	4.2 Second Derivatives and Curvature	
Oct. 15	W	4.4 Curve-Sketching	
Oct. 17	F	4.5 Absolute Extrema	
Oct. 20-21	M-T	Fall Break	
Oct. 22	W	Review	
Oct. 24	F	**Test 3**	**App Sets** (due before class)
Oct. 27	M	4.6 Optimization	
Oct. 29	W	4.6 (cont.)	
Oct. 31	F	5.1 & 8.4 Indefinite Integrals	
Nov. 3	M	5.1 & 8.4 (cont.)	
Nov. 5	W	5.2 Integration by Substitution	
Nov. 7	F	5.4 Definite Integrals	
Nov. 10	M	5.5 Fundamental Theorem of Calculus	
Nov. 12	W	6.1 Area Between Curves	
Nov. 14	F	Review	
Nov. 17	M	**Test 4**	**App Sets** (due before class)
Nov. 19	W	6.3 Integration by Parts	
Nov. 21	F	Review	
Nov. 24-28	M-F	Thanksgiving Break	
Dec. 1	M	7.1 Multivariable Functions	
Dec. 3	W	7.2 Partial Derivatives	
Dec. 5	F	7.3 Extrema and Saddle Points	
Dec. 8	M	7.6 Double Integrals	
Dec. 10	W	Review	
Dec. 12	F	Review	**App Sets** (due before class)
Dec. 16	T	**Final Exam**	9:30-10:40 am

Name: _____

Ma 130: Applied Calculus – Homework Exercises

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For each section, indicate the homework problems completed (circle completed problems, add problem # for any unassigned problems you did). A problem is considered "completed" if you have confirmed that you have developed the solution accurately and can articulate the process by which you developed it.

Complete and submit this sheet as well as all application problems. Section numbers should appear at the beginning of each new section, and presentation will be evaluated based on the guidelines provided in the syllabus.

Full credit will be awarded if you completed a **sufficiently large, intentional, representative sampling** of problems throughout the chapter(s) with appropriate presentation. You do not have to complete all problems to receive full credit, and you will receive a penalty for failing to meet the presentation guidelines.

Chapter 1

1.1: 9, 11, 13, 15, 17, 19;

App: 89, 91

1.3: 87, 89

1.4: 63, 65, 67

1.5: 59, 61, 63, 65

1.6: 93 and pg 90 # 91

Chapter 2

2.1: 9, 11, 13, 15, 25, 27, 51, 53;

App: 91, 97

2.2: 9, 11, 13, 15, 17, 19, 21;

App: 81, 83, 85, 87

2.3: 19, 20, 21, 22, 55, 57, 59

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Chapter 2

2.4: 1, 3, 9, 11, 13, 47, 49-56, 69, 71

2.5: 1, 3, 5, 7, 9, 13, 15, 17, 19, 27, 31, 33, 35, 37, 39, 43, 45, 47, 49, 57, 59, 61, 63, 65, 69;

App: 91, 93, 95, 97 and p 178 # 91, 93, 95

Chapter 3

3.2: 13, 15, 17, 19, 27, 47, 49, 51, 53, 55, 57;

App: 67, 69, 71, 73

3.3: 9, 13, 17, 19, 21, 25, 31, 33, 49, 51, 53, 55, 71, 73, 75, 77, 79, 83, 91;

App: 93, 95, 97

3.4: 1, 3, 5, 7, 17, 21, 23, 25, 27, 29, 31, 33, 41, 45, 47, 49;

App: 91, 95, 97

Chapter 8

8.2: **App**: 67, 69

8.3: 9, 13, 15, 19, 21;

App: 47, 49

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Chapter 3

3.5: 17, 19, 21, 23, 27, 29, 31;

App: 59, 61

3.6: 1, 3, 5, 7, 9, 11, 13, 17, 19, 23, 25;

App: 33, 35, 41, 43, 47

Chapter 4

4.1 3, 5, 7, 9-16, 33, 35, 37, 39, 41, 45, 47, 57, 59, 85, 87;

App: 95, 97

4.2: 9, 11, 13, 15, 17, 19, 21, 25, 27, 29, 31, 35, 37, 39;

App: 83, 85, 87, 89, 91, 93, 95, 97, 99

4.4: 29, 33, 47, 51, 53, 55;

App: 81, 83, 87, 91

4.5: 19, 21, 23, 25, 43, 45, 51, 53, 57, 59, 61, 65

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Chapter 4

4.6: 1, 3, 5, 7, 11, 13, 15, 17;

App: 23, 27, 29, 31, 35, 39, 43, 45, 47, 49

Chapter 5

5.1: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 43, 45, 51, 53, 55, 57, 59, 61, 71, 73;

App: 85, 89, 91, 93

5.2: 1, 3, 5, 7, 9, 13, 15, 17, 23, 27, 29, 31;

App: 77, 79, 81, 83, 85, 87, 89, 91

5.4: 19, 31, 33, 39, 41, 43, 45, 49, 51

5.5: 13, 17, 19, 21, 23, 27, 31, 37, 41, 45, 63, 65;

App: 69, 71, 73, 75, 77, 83, 87, 89, 91, 93

Chapter 8

8.4: TBA

Chapter 6

6.1: 15, 19, 23, 25, 31, 35, 45, 47, 51, 53, 55, 67, 69;

App: 79, 81, 89, 91

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Chapter 6

6.3: 9, 11,15, 17, 19, 21, 23, 25;

App: 87, 89, 91

Chapter 7

7.1: 1, 3, 5, 7, 9, 13, 17, 19, 23, 25, 29, 39, 41, 43, 45, 47, 51;

App: 69, 73, 75, 77

7.2: 9, 13, 19, 21, 25, 29, 39, 43, 45, 51, 53, 55, 57, 59;

App: (Interpret) 35, 37, 61, 63, 65,

(Complete) 85, 89, 95, 97

7.3: 9, 13, 17, 21, 25, 27, 35;

App: 41, 43, 45, 47

7.6: 7, 9, 13, 15, 17, 19, 23, 25;

App: 47, 49, 51, 53, 55, 57