	Calculus I Spring 2020			VICTOR SIRELSON	
	MAT	14	75 D601 MW 8:00-9:40 Room N1107	Text: Calculus, Volume 1,	openstax.org E. Herman and G. Strang
Class	Date	Day	Session Topics	Text	Web Work Assignments
					Explore - Piecewise Functions;
1	1/27	М	<b>2.2</b> The Limit of a Function	pp 135 – 153	Limits Introduction
					Limits-Analytic: Limits-Limit
				pp 160 – 174	Properties;One-sided Limits; Limits -
2	1/29	W	2.3 The Limit Laws	* *	Infinite
					Limits-Continuity; Intermediate
				pp 179 – 188	Value Theorem; Limits Rates of
3	2/3	М	2.4 Continuity	* *	Change
					Derivative-Limit Definition
				pp 213 – 227	Explore - Instantaneous Rates of
4	2/5	W	<b>3.1</b> Defining the Derivative		Change
5	2/10	М	<b>3.2</b> The Derivative as a Function	pp 232 – 242	Derivative - Functions
	2/12	W	COLLEGE CLOSED		
	2/17	М	COLLEGE CLOSED		
					Derivatives-Power Rule; Product
6	2/19	W	<b>3.3</b> Differentiation Rules	pp 247 – 260	Rule; Quotient Rule
			<b>3.4</b> Derivatives as Rates of Change	nn 266 – 270	Derivatives - Rates of Change;
7	2/24	М		PP 200 270	Higher Order
8	2/26	W	Exam 1		
9	3/2	М	3.5 Derivatives of Trigonometric Functions	pp 277 – 284	Derivatives - Trigonometric
10	3/4	W	<b>3.6</b> The Chain Rule	pp 287 – 296	Derivatives-ChainRule
11	3/9	М	3.7 Derivatives of Inverse Functions	pp 299 – 305	Derivatives - Inverses
12	3/11	М	3.8 Implicit Differentiation	pp 309 – 316	Derivatives - Implicit
				nn $319 - 330$	Derivatives-Exponential;
13	3/16	W	<b>3.9</b> Derivatives of Exponential and Logarithmic Functions	pp 517 550	Logarithms; Logarithmic
14	3/18	Μ	4.1 Related Rates	pp 341 – 349	Application Related Rates
15	3/23	W	Exam 2		
			<b>4.2</b> Linear Approximations and Differentials	nn 354 - 363	Application - Linearization; -
16	3/25	М	4.2 Enter Approximations and Differentials	pp 554 - 565	Differentials
17	3/30	W	4.3 Maxima and Minima	pp 366-375	Application - Extrema
					Application - The Mean Value
18	4/1	Μ	<b>4.4</b> The Mean Value Theorem	pp 379-387	Theorem
19	4/6	M T	4.5 Derivatives and the Shape of a Graph	pp 390-402	Graphing the Derivative
20	4/7	T	<b>4.6</b> Limits at Infinity and Asymptotes	pp 407-425	
	April 8-	16	4.7 Applied Optimization	pp 439-450	
21	4/20	W	SPRING RECESS		
22	4/22	IVI	4.7 Applied Optimization	pp 439-450	
23	4/2/	VV NA		pp 454-464	
24	4/29	101	A 10 A ntiderivatives	nn 485-496	
25	5/6	M	5.1 Approximating Areas	pp 403-490	
20	5/11	W	5.2 The Definite Integral	pp 529-543	
28	5/13	w	5.3 The Fundamental Theorem of Calculus	pp 549-559	
20	5/18	M	REVIEW		
30	5/20	W	Final Exam		
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