Tentative Class Schedule for Ma 130 Applied Calculus – Spring 2025-26

Date	Day	Topic	Assignment
Unit 1: Functions and Limits			
1/14	W	Course Overview, 1.1 Functions	*Note: Readings are to be done before the current lecture. Exercises are to be done before the following lecture.* 1.1 Readings: pp 2-9 (through Example 4) and pp 11-13 (Example 7) 1.1 Exercises: Skill: 9, 11, 13, 15, 17, 19; App: 89, 91 **Introductory Activities** (see Canvas due dates)
1/16	F	1.1 (cont.)	continue exercises from 1.1
1/19	M	*MLK Jr. Day*	*no class*
1/21	W	1.1 (cont.)	continue exercises from 1.1
1/23	F	*Storm*	*no class*
1/26	M	*Storm*	*no class*
1/28	W	1.2-1.5 Models	1.3 Readings: pp 42-44 ("Linear and Quadratic Regression" through Example 8) 1.3 Exercises: Skill: 33, 35, 37, 65,67, 69, 73, 77, 79; App: 87, 89 1.4 Readings: pp 51-53 (through Example 1) 1.4 Exercises: App: 63, 65, 67 1.5 Readings: p 67 (Example 4) 1.5 Exercises: App: 59, 61, 63, 65 1.6 Readings: p 80 (Example 11) 1.6 Exercises: App: 93 and p 90 # 91 **Apps Set: Functions & Limits** (due by class on test day)
1/30	F	1.2-1.5 (cont.)	continue exercises from 1.2-1.6
2/02	M	2.1-2.3 Limits and Continuity	2.1 Readings: pp 92-97 (through "Conceptual Insight") 2.1 Exercises: Skill: 9, 11, 13, 15, 25, 27, 51, 53; App: 91, 97 2.2 Readings: pp 105-114 (read for conceptual understanding) 2.2 Exercises: Skill: 9, 11, 13, 15, 17, 19, 21; App: 81, 83, 85, 87 2.3 Readings: pp 118-122 (through Ex 2) 2.3 Exercises: Skill: 19, 20, 21, 22, 55, 57, 59
2/04	W	2.1-2.3 (cont.)	continue exercises from 2.1-2.3
2/06	F	**Test 1**	*Reminder: Apps Set due by class today*
Unit 2: Derivatives and Rates of Change			
2/09	M	2.4 Derivatives	2.4 Readings: pp 138-138 (through Example 5) and pp 140-141 ("Nonexistence..." through end of chapter) 2.4 Exercises: Warm-up: 1, 3; Skill: 9, 11, 13, 47, 49-56, 69, 71

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2/11	W	2.5 Basic Rules	2.5 Readings: pp 145-152 2.5 Exercises: Warm-up: 1, 3, 5, 7; Skill: 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 **Apps Set: Rates of Change** (due by class on test day)
2/13	F	3.2 Exponentials and Logs	3.2 Readings: pp 187-194 Focus on the rules (p 191) and Examples 1, 2, 3, 4, and 6 rather than the development of each rule. Take note of Conceptual Insights (p 190 and p 194). 3.2 Exercises: Skill: 13, 15, 17, 19, 27, 47, 49, 51, 53, 55, 57; App: 67, 69, 71, 73
2/16	M	3.3 Products and Quotients	3.3 Readings: pp 196-201 3.3 Exercises: Skill: 9, 13, 17, 19, 21, 25, 31, 33, 49, 51, 53, 55, 71, 73, 75, 77, 79, 83, 91; App: 93, 95, 97
2/18	W	*Bible Conf.*	*no class*
2/20	F	*Bible Conf.*	*no class*
2/23	M	3.4 Chain Rule	3.4 Readings: pp 204-212 3.4 Exercises: Warm-up: 1, 3, 5, 7; Skill: 17, 21, 23, 25, 27, 29, 31, 33, 41, 45, 47, 49; App: 91, 95, 97
2/25	W	8.2-8.3 Sines and Cosines	8.2 Readings: p 515 ("Graphs of Sine...") and pp 517-518 (Example 4) 8.2 Exercises: App: 67, 69 8.3 Readings: pp 520-524 8.3 Exercises: Skill: 9, 13, 15, 19, 21; App: 47, 49
2/27	F	**Test 2**	*Reminder: Apps Set due by class today*
3/02	M	3.5 Implicit Differentiation	3.5 Readings: pp 215-220 3.5 Exercises: Skill: 17, 19, 21, 23, 27, 29, 31; App: 59, 61 **Apps Set: RR & Op** (due by class on the day Unit 4 starts)
3/04	W	3.6 Related Rates	3.6 Readings: pp 222-225 3.6 Exercises: Warm-up: 1, 3, 5, 7; Skill: 9, 11, 13, 17, 19, 23, 25; App: 33, 35, 41, 43, 47
Unit 3: Derivatives, Extrema, and Curvature			
3/06	F	4.1 First Derivatives and Local Extrema	4.1 Readings: pp 241-243 (through Example 2), pp 245-247 ("Conceptual Insight" through "Theorem 2"), and pp 250-251 Examples 8 and 9 4.1 Exercises: Warm-up: 3, 5, 7; Skill: 9-16, 33, 35, 37, 39, 41, 45, 47, 57, 59, 85, 87; App: 95, 97 **Apps Set: Extrema & Curvature** (due by class on test day)
3/09	M	4.2 Second Derivatives and Curvature	4.2 Readings: pp 257-264 (through Example 4) and pp 267-268 ("Point of Diminishing Returns" and Example 7) 4.2 Exercises: Skill: 9, 11, 13, 15, 17, 19, 21, 25, 27, 29, 31, 35, 37, 39; App: 83, 85, 87, 89, 91, 93, 95, 97, 99

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3/11	W	4.4 Curve-Sketching	4.4 Readings: pp 283-292 Focus on drawing connections between the behaviors of the first and second derivatives and what they tell us about the graph of the function. 4.4 Exercises: Skill: 29, 33, 47, 51, 53, 55; App: 81, 83, 87, 91
3/13	F	4.5 Absolute Extrema	4.5 Readings: pp 296-299 (through Example 1) 4.5 Exercises: Skill: 19, 21, 23, 25, 43, 45, 51, 53, 57, 59, 61, 65
3/16	M	Apps and Review	study for test
3/18	W	**Test 3**	*Reminder: Apps Set due by class today*
3/20	F	4.6 Optimization	4.6 Readings: pp 304-313 4.6 Exercises: Warm-up: 1, 3, 5, 7; Skill: 11, 13, 15, 17; App: 23, 27, 29, 31, 35, 39, 43, 45, 47, 49 **Apps Set: RR & Op (cont.)** (due by class on the day Unit 4 starts)
3/23	M	*Spring Break*	*no class*
3/25	W	*Spring Break*	*no class*
3/27	F	*Spring Break*	*no class*
Unit 4: Integrals, Antiderivatives, Accumulation, and Area			
3/30	M	5.1 & 8.4 Indefinite Integrals	*Reminder: Apps Set due by class today* 5.1 Readings: pp 323-332 5.1 Exercises: Warm-up: 1, 3, 5, 7; Skill: 9, 11, 13, 15, 17, 19, 21, 23, 43, 45, 51, 53, 55, 57, 59, 61, 71, 73; App: 85, 89, 91, 93 8.4 Readings: pp 526-527 (through "Indefinite Integrals of Sine and Cosine" box) 8.4 Exercises: TBA
4/01	W	5.1 & 8.4 (cont.)	continue exercises from 5.1 & 8.4 **Apps Set: Integration** (due by class on test day)
4/03	F	5.2 Integration by Substitution	5.2 Readings: pp 335-344 5.2 Exercises: Warm-up: 1, 3, 5, 7; Skill: 9, 13, 15, 17, 23, 27, 29, 31; App: 77, 79, 81, 83, 85, 87, 89, 91 8.4 Exercises: TBA
4/06	M	5.4 Definite Integrals	5.4 Readings: pp 358-365 (Focus on Examples 1, 3, 4) 5.4 Exercises: Skill: 19, 31, 33, 39, 41, 43, 45, 49, 51
4/08	W	5.5 Fundamental Theorem of Calculus	5.5 Readings: pp 369-377 (Focus on FTC Examples 1, 2, 5, 6, 7 and AV Examples 8, 9) 5.5 Exercises: Skill: 13, 17, 19, 21, 23, 27, 31, 37, 41, 45, 63, 65; App: 69, 71, 73, 75, 77, 83, 87, 89, 91, 93
4/10	F	6.1 Area Between Curves	6.1 Readings: pp 388-392 (through Example 7) 6.1 Exercises: Skill: 15, 19, 23, 25, 31, 35, 45, 47, 51, 53, 55, 67, 69; App: 79, 81, 89, 91
4/13	M	Apps and Review	study for test

Date	Day	Topic	Assignment
4/15	W	*AACS*	*no class*
4/17	F	**Test 4**	*Reminder: Apps Set due by class today*
Unit 5: Multivariable Calculus			
4/20	M	7.1 Multivariable Functions	7.1 Readings: pp 435-441 7.1 Exercises: Warm-up: 1, 3, 5, 7, 9; Skill: 9, 13, 17, 19, 23, 25, 29, 39, 41, 43, 45, 47, 51; App: 69, 73, 75, 77 **Apps Set: Multivariable Optimization** (due by class on the last Friday before Final Exam Week)
4/22	W	7.2 Partial Derivatives	7.2 Readings: pp 444-449 7.2 Exercises: Skill: 9, 13, 19, 21, 25, 29, 39, 43, 45, 51, 53, 55, 57, 59; App: (Interp) 35, 37, 61, 63, 65, (App) 85, 89, 95, 97
4/24	F	7.3 Extrema and Saddle Points	7.3 Readings: pp 453-459 7.3 Exercises: Skill: 9, 13, 17, 21, 25, 27, 35; App: 41, 43, 45, 47
4/27	M	7.6 Double Integrals	7.6 Readings: pp 481-487 7.6 Exercises: Skill: 7, 9, 13, 15, 17, 19, 23, 25; App: 47, 49, 51, 53, 55, 57
4/29	W	Apps and Review	study for final exam
5/01	F	Final Review	*Reminder: Apps Set due by class today* study for final exam
05/05	T	**Final Exam**	9:30-10:40am per University Final Exam Schedule