

MATH 1500 - Calculus I

Tentative Calendar - FALL 2024 - Dr. Dustin Belt

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<i>Lecture</i>	<i>Discussion</i>	<i>Lecture</i>	<i>Discussion</i>	<i>Lecture</i>
19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
1: Intro to the course	College Algebra and Trig Review	2: 1.3-1.5 - Limits	<i>WS-College Algebra Review</i>	3: 1.3-1.5 - Limits
26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
4: 1.6 - Calculating Limits Using the Limit Laws 1.8 Continuity-Part 1 <i>Last day +/change</i>	<i>DUE: HW's 1, 2, 3 In Class: HW Quiz 1</i>	5: 1.6 - Calculating Limits-0/0 Scenarios	<i>WS-Infinite Limits</i>	6: 1.6 - Calculating Limits-Piecewise Defined Functions/Squeeze Theorem
2-Sept	3-Sept	4-Sept	5-Sept	6-Sept
<i>Labor Day NO CLASSES</i>	<i>DUE: HW's 4, 5, 6 In Class: HW Quiz 2</i>	7: 3.4 - Limits at Infinity; Horizontal Asymptotes	<i>WS-Asymptotes</i>	8: 1.8 - Continuity-Part 2 (Discontinuities, Intermediate Value Theorem)
9-Sept	10-Sept	11-Sept	12-Sept	13-Sept
9: 2.1 - Derivatives & Rates of Change	<i>DUE: HW's 7, 8 In Class: HW Quiz 3</i>	10: 2.2 - The Derivative as a Function	<i>WS-The Definition of the Derivative</i>	11: 2.3 - Differentiation Formulas-The Power Rule and Polynomials
16-Sept	17-Sept	18-Sept	19-Sept	20-Sept
Exam 1 Review	<i>DUE: HW's 9, 10, 11 In Class: HW Quiz 4</i>	More Exam 1 Review <i>Exam 1 6:30-7:30 pm. Exam 1 covers sections 1.3-1.6, 1.8, 3.4, 2.1, 2.2, 2.3 Part 1</i>	No Class	12: 2.3 - Differentiation Formulas-The Product and Quotient Rules
23-Sept	24-Sept	25-Sept	26-Sept	27-Sept
13: 2.4 - Derivatives of Trigonometric Functions <i>Last day to drop without a grade</i>	<i>DUE: Exam 1 Reflection, HW 12</i>	14: 2.5 - The Chain Rule	<i>WS-Differentiation Rules</i>	15: 2.5 - Strategies for Differentiation
30-Sept	1-Oct	2-Oct	3-Oct	4-Oct
16: 2.9 - Linear Approximations	<i>DUE: HW's 13, 14, 15 In Class: HW Quiz 5</i>	17: 2.6 - Implicit Differentiation	<i>WS-Strategies for Differentiation</i>	18: 2.8 - Related Rates
7-Oct	8-Oct	9-Oct	10-Oct	11-Oct
19: 3.1 - Maximum and Minimum Values-Critical Numbers and Local Extrema	<i>DUE: HW's 16, 17, 18 In Class: HW Quiz 6</i>	20: 3.1 - Maximum and Minimum Values-The Extreme Value Theorem	<i>WS-Related Rates</i>	21: 3.2 - The Mean Value Theorem
14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
Exam 2 Review	<i>DUE: HW's 19, 20, 21 In Class: HW Quiz 7</i>	More Exam 2 Review <i>Exam 2 6:30-7:30pm. Exam 2 covers sections 2.3 Part 2, 2.4, 2.5, 2.8, 2.9, 3.1, 3.2.</i>	No Class	22: 3.3 - How Derivatives Affect the Shape of a Graph-1st Derivative Test
21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
23: 3.3 - How Derivatives Affect the Shape of a Graph-Concavity, 2nd Derivative Test, and Inflection points	<i>DUE: Exam 2 Reflection, HW 22</i>	24: 3.7 - Optimization Problems	<i>WS-Optimization Problems</i>	25: 3.9 - Antiderivatives
28-Oct	29-Oct	30-Oct	31-Oct	1-Nov
26: 4.1 - Areas and Distances 4.2 - The Definite Integral - Formal Definition	<i>DUE: HW's 23, 24, 25 In Class: HW Quiz 8</i>	27: 4.2 - The Definite Integral - Approximating with Riemann Sums, Basic Properties	<i>WS-Riemann Sums</i>	28: 4.3 - The Fundamental Theorem of Calculus
4-Nov	5-Nov	6-Nov	7-Nov	8-Nov
29: 4.3 - The Fundamental Theorem of Calculus 4.4 - Indefinite Integrals	<i>DUE: HW's 26, 27, 28 In Class: HW Quiz 9</i>	30: 4.5 - The Substitution Rule	<i>WS-Integrals</i>	31: 4.5 - The Substitution Rule-Rationalizing Substitutions, Definite Integrals
11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
Exam 3 Review <i>Last day to withdraw</i>	<i>DUE: HW's 29, 30, 31 In Class: HW Quiz 10</i>	More Exam 3 Review <i>Exam 3 6:30 pm - 7:30 pm. Exam 3 covers sections 3.3, 3.7, 3.9, 4.1-4.5</i>	No Class	32: 5.1 - Areas Between Curves
18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
33: 5.2 - Volumes	<i>DUE: Exam 3 Reflection, HW 32</i>	34: 5.4 - Work	<i>WS-Volumes of Revolution</i>	35: 5.5 - Average Values
25-Nov	26-Nov	27-Nov	28-Nov	29-Nov
THANKSGIVING RECESS				
2-Dec	3-Dec	4-Dec	5-Dec	6-Dec
Catch Up/Final Exam Review	<i>DUE: HW's 33, 34, 35 In Class: HW Quiz 11</i>	Final Exam Review	More Final Exam Review	<i>Reading Day NO CLASSES</i>
9-Dec	10-Dec	11-Dec	12-Dec	13-Dec
	<i>Final Exam 5:30-7:30 pm</i>			