

Monday	Tuesday	Wednesday	Thursday	Friday
<p>7</p> <p>Day 1 Course Intro (Syllabus/ Course Overview)</p> <p>Ch. 1.1 Introducing Calculus, Rates of Change , Defining Limits and and Properties</p> <p>HW: pg. 85-89 #25-41 odds, 37, 41, AP Practice 1-8 all</p>	<p>8</p> <p>1.2 Techniques for finding Limits (Algebraic, Numeric, Graph)</p> <p>HW: Pg. 99-102 #31-49 odds, 53, 59, 73,75,79,85, 89, AP Practice 1-8 all</p>	<p>9</p> <p>1.3 – Types of Discontinuity & Continuity conditions</p> <p>HW: pg. 112-117 #13,15,17,25,29,35, 37, 45, AP Practice 1-5 all</p>	<p>10</p> <p>1.3b Notes - Intermediate Value Theorem (IVT) & 1.4 Squeeze Theorem</p> <p>HW: pg. 112-117 #59,63,65, AP Problems 6-11 all</p> <p>Pg. 125 #3,5-8 all</p>	<p>11</p> <p>1.5 Notes – Infinite Limits (V.A.) and Limits at Infinity (H.A.)</p> <p>HW: Pg. 140-143 #9-23 odds, 27-49 odds, 59,60,73, AP Practice 1-11 all</p>
<p>14</p> <p>Ch. 1 Test Review Day 1</p> <p>HW: Pg. 159 AP Practice 1-11 all (skip 4,10)</p>	<p>15</p> <p>Ch. 1 Test Review Day 2</p>	<p>16</p> <p>2.1 Notes (Not on Ch. 1 Test) Equations of tangent line, Avg velocity vs instantaneous velocity HW: Pg. 168-171 #17-29 odd</p>	<p>17</p> <p>Ch.1 Test - Limits</p>	<p>18</p> <p>2.2 —Limit definition of a derivative and graphing derivative functions.</p> <p>HW: Pg. 182-183 AP Practice #1-11 all</p>
<p>21</p> <p>2.3a – Derivative of Polynomial (Power Rule)</p> <p>HW: Pg. 190-193 #7-21 odd, 33,37,47,57,61,63</p>	<p>22</p> <p>2.3b - Derivatives of exponential e^x and logarithmic $\ln(x)$ functions</p> <p>HW: Pg. 190-193 #23,25,35,39,59, AP Practice 1-11 all</p>	<p>23</p> <p>2.4 - Product Rule and Quotient Rule</p> <p>HW: Pg. 202-207 #9,23-37 odd, 69,71, 81, AP Practice 1-9 all</p>	<p>24</p> <p>2.5 – Derivatives of Trig Functions</p> <p>HW: Pg. 212-214 #17-35 odd, 49, 55, AP Practice 1-10 all</p>	<p>25</p> <p>Ch. 2.1-2.5 Quiz Review</p> <p>HW: Pg. 220 AP Practice 1-11 all</p> <p>Pg. 221 AP Practice 1-10 all</p>
<p>28</p> <p>Ch. 2.1-2.5 Quiz Review</p>	<p>29</p> <p>3.1 – Chain Rule</p> <p>HW: Pg.231-235 19-45 odd, 55,57, 75, AP Practice 1-14 all</p>	<p>30</p> <p>Chapter 2.1-2.5 Quiz</p>	<p>31</p> <p>3.2 – Implicit Differentiation</p> <p>HW: Pg. 242-245 #9-17 odd, 23,25,31,39,47-51 odd</p>	<p>Sept 1</p> <p>3.2 – Implicit Differentiation Day 2 And 3.3a – Derivative of Inverse at a point</p> <p>HW: Pg. 242-245 #53-59 odd, 71,77, AP Practice 1-10 all</p>

BC Calculus

September 2023

Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
4 Labor Day	5 Teacher Workday	6 Professional Development Day	7 3.3b – Derivative of an inverse function, derivative of inverse trig functions HW: Pg. 250-251 23-47 odd, 48, AP Practice 1-8 all	8 3.4 – Log Derivatives and Log Differentiation HW: Pg. 259-261 31-69 odd
11 3.1-3.4 Test Review HW: Pg. 261 AP Practice 1-12 all Pg. 264 AP Practice 1-9 all	12 3.1-3.4 Test Review	13 4.1 Notes - Interpret Derivatives and Particle Motion PVA HW: Pg. 270 5-15 odd AP Practice 1-3 all	14 Ch. 3 Test	15 4.2 Notes- Linear Approximation and rates of change other than motion and HW: 4.3a Related Rates Notes Intro HW: pg. 278-281 #35-38 all AP Practice 1-8 all
Monday	Tuesday	Wednesday	Thursday	Friday
18 4.3 – Related Rates Notes HW: Pg. 286-291 #9,10,22,23,35,38	19 4.3 – Related Rates (Day 2) HW: Pg. 286-291 19,39,40,53, AP Practice 1-9 all	20 4.4 Notes - Indeterminate Form and L'Hopital's Rule & 4.1-4.4 Quiz Review HW: pg. 299-301 #27-57 odd, AP Practice 1-8 all	21 4.1-4.4 Quiz Review HW: Pg. 304 AP Practice 1-8 all	22 5.1 notes – Extreme Value Theorem (EVT) and Absolute Extrema HW: Pg. 316-319 #7, 39,43,47,49,51,53, AP Practice 1-6 all
25 4.1-4.4 Quiz	26 5.2 – Mean Value Theorem (MVT) and Rolle's Theorem HW: pg. 327-331 #9,17,25, 27,31,37,68, AP Practice 1-10 all	27 5.3 – First Derivative Test, Test for Concavity, 2nd Derivative Test HW: pg. 343-347 13,29,41,47,49,51, 59,67,69,77,91, AP Practice 1-4 all	28 5.4a – Sketching a Curve HW: Pg. 358-359 #1,3,9,11,13,19,25 ,33,39,41,43,53,55	29 5.3b - Sketching Derivative Graphs HW: Pg. 344-345 #35-38 all 63,64,65,66

BC Calculus

October 2023

Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
<p>2</p> <p>5.5 – Optimization</p> <p>HW: Pg. 366-370 #5,6,7,9,12, AP Practice 1-5 all</p>	<p>3</p> <p>Ch. 5 Test Review</p> <p>HW: pg. 385 Ch. 5 AP Practice 1-13 all</p>	<p>4</p> <p>Ch. 5 Test Review</p>	<p>5</p> <p>Ch. 5.1-5.5 Test</p>	<p>6</p> <p>6.1 - Exploring Accumulation of Change & Sigma Notation & approximating Area (Lower and Upper Sum)</p> <p>HW: pg. 396-398 #17,19,29 AP Practice 1-2</p>
<p>9</p> <p>Columbus Day (No School)</p>	<p>10</p> <p>Teacher Workday</p>	<p>11</p> <p>Teacher Workday (Professional Development Day)</p>	<p>12</p> <p>6.2 - Approximate Area with Riemann Sums (and Trapezoid approximation)</p> <p>HW: pg. 408-412 #33-38 all, 51,53, AP Practice 1-11 all</p>	<p>13</p> <p>6.3 - First and 2nd Fundamental Theorems of Calculus</p> <p>HW: pg. 420-424 #5-35 odd, 39, 59-65 odd, 71-74 all AP Practice 1-13 all</p>
<p>16</p> <p>6.4 - Properties of Definite Integral and Average Value Theorem</p> <p>HW: Pg. 432-438 #17-33 odd, 39,53,71-77 odd, AP Practice 1-17 all</p>	<p>17</p> <p>6.5 - U-Substitution and Even & Odd Functions</p> <p>HW: pg. 449-454 #9-19 odd, 27-51 odd,61,63, 79, 87,</p>	<p>18</p> <p>6.5b - Integrating using Long Division and Complete the Square</p> <p>HW: pg. 449-454 AP Practice 1-14 all</p>	<p>19</p> <p>6.1-6.4 Test Review</p> <p>HW: Ch. 6 AP Practice Pg. 459-460 #1-14 all</p>	<p>20</p> <p>6.1-6.4 Test Review</p>
<p>23</p> <p>6.1-6.4 Test Review</p>	<p>24</p> <p>Chapter 6 Test Non-Calculator portion</p>	<p>25</p> <p>Ch. 6 Test FRQ Calculator Review Day 1</p>	<p>26</p> <p>Ch. 6 Test FRQ Calculator Review Day 2</p>	<p>27</p> <p>Ch. 6 Test FRQ Calculator Portion</p>

Monday	Tuesday	Wednesday	Thursday	Friday
Oct 30 7.1 -7.2a– Find General and Particular solution of Differential Equations HW: pg.542-433 #15-21 odd, 31,33,35, AP Problems 1-4 all	Oct 31 7.2b - Solving Differential Equations (Day 1) HW: pg. 551-553 #3-25 odd,	Nov 1 7.2 - Solving Differential Equations (Day 2) HW: pg. 551-553 26,27,39, AP Review #1-10 all	2 7.3 – Slope Fields HW: Pg. 557 #17,18 AP Problems 1-3 all	3 7.1-7.3 Quiz Review
6 7.1-7.3 Quiz Review	7 Election Day (No School)	8 8.1 Notes – Area between Graphs HW: pg. 579-582 3,7,15,21,23,25,27	9 Chapter 7 Quiz	10 8.1b – Area between Graphs Day 2 HW: pg. 579-582 AP Problems 1-10 all
13 8.2a – Volume by Disc Method and Washer Method HW: pg. 592-596 Disc: # 5,7,8 Washer:# 10,47, 49 AP Practice Problems #1-10 all	14 8.4 – Volumes with Cross Sections of various Shapes HW: pg. 610-612 #1,5,7,14, AP Practice #1-8 all	15 8.1-8.2 Quiz Review HW: Ch. 8 Exercise Problems Pg. 633 1-7 all	16 8.1-8.2 Quiz Review	17 8.1-8.2 Quiz
20 Thanksgiving Break	21 Thanksgiving Break	22 Thanksgiving Break	23 Thanksgiving Break	24 Thanksgiving Break

BC Calculus

December 2023

Class Calendar

Monday	Tuesday	Wednesday	Thursday	Friday
Nov 27 Unit 8 Area/Volume Quiz Review	Nov 28 AP Calculus FRQ topic (Rate in – Rate Out Antiderivative Word Problems)	Nov 29 Unit 8 Area/Volume Quiz	Nov 30 FRQ Quiz 1 Review	Dec 1 FRQ Quiz 1 Review
4 FRQ Quiz 1 Review	5 AP Calculus FRQ Quiz 1 (Table of Values and Derivative Graph)	6 AP Calculus FRQ Quiz 2 Topics: Rate-In/Rate Out, Riemann Sums and Differential Equations	7 AP Calculus FRQ Quiz 2 Review	8 AP Calculus FRQ Quiz 2 Review
11 AP Calculus FRQ Quiz 2 Antiderivative Rate-in/Rate Out, Riemann Sums & Differential Equations)	12 Makeup test/recovery day Full School Day	13 Makeup test/recovery Half Day (1st , 2 nd , 3 rd periods)	14 Makeup test/recovery Half Day (4 th , 5 th 6 th)	15 Makeup test/recovery Half Day (7 th period and teacher appointments)
18 Winter Break	19 Winter Break	20 Winter Break	21 Winter Break	22 Winter Break
25 Winter Break	26 Winter Break	27 Winter Break	28 Winter Break	29 Winter Break