**Snake River High School**

**Class-Calculus B**

**Course Description – The students will continue the Study of Derivatives, Do Applications of Derivatives, and Begin Integrals.**

**Textbook-Calculus : Graphical, Numerical, Algebraic AP Edition @2007- Pearson Prentice Hall**

|  |  |
| --- | --- |
| **Chapter 3** | **Derivatives** |
| 3-5 | To Study Derivatives of Trigonometric Functions. |
| 3-6 | To Study the Chain Rule and how it applies to Derivatives. |
| 3-7 | To Study Implicit Differentiation. |
| 3-8 | To Study Derivatives of Inverse Trigonometric Functions. |
| 3-9 | To Study Derivatives of Exponential and Logarithmic Functions. |

Approximately 8 Days

|  |  |
| --- | --- |
| **Chapter 4** | **Applications of Derivatives** |
| 4-1 | To Study Extreme Values of Functions. |
| 4-2 | To Study the Mean Value Theorem. |
| 4-3 | To Work on Connecting f’ and f” with the Graph of f. |
| 4-4 | To Study Modeling with Optimization. |
| 4-5 | To Study Linearization and Newton’s Method. |
| 4-6 | To Study Related Rates. |

Approximately 16 Days

|  |  |
| --- | --- |
| **Chapter 5** | **The Definite Integral** |
| 5-1 | To Study Estimating with Finite Sums. |
| 5-2 | To Study Definite Integrals. |
| 5-3 | To Study Definite Integrals and Antiderivatives. |
| 5-4 | To Study the Fundamental Theorem of Calculus. |
| 5-5 | To Study the Trapezoidal Rule for Areas under Curves. |

Approximately 15 Days

|  |  |
| --- | --- |
| **Chapter 6** | **Differential Equations and Mathematical Modeling** |
| 6-1 | To Study Slope Fields and Euler’s Method. |
| 6-2 | To Study Antidifferentiation by Substitution. |

Approximately 8 Days

**Grading Breakdown:**

Homework 20% Retakes will be given according to the retake policy

Tests 70% which was designed by the leadership team.

Final Test 10%