**Snake River High School**

**Class-Pre Calculus C**

**Course Description – The students will study The Law of Sines, The Law of Cosines, De Moivre’s Theorem and nth Roots, Systems of Equations, Matrices, & Conic Sections, Probability and Statistics.**

**Textbook-Precalculus- Graphical, Numerical, Algebraic by Pearson**

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| **Chapter 5 & 6** | **Law of Sines, Law of Cosines, & De Moivre’s Theorem.** |
| 5-5 | To Solve Non Right Triangles using The Law of Sines. |
| 5-6 | To Solve Non Right Triangles using The Law of Cosines. |
| 6-6 | To Learn De Moivre’s Theorem to find Powers of values in Trigonometric Form. Also, to find roots of values in Trigonometric Form. |

Approximately 3 Weeks.

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|  | **Probability and Statistics** |
|  | To Study the Fundamental Counting Principle. |
|  | To Study Permutations and Combinations. |
|  | To Study Permutations and Combinations with Probability Involved. |

Approximately 1.5 Weeks

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| **Chapter 8** | **Conic Sections.** |
| 8-1 | To Study Conic Sections and Learn the definition of Parabolas and how to Graph them and find the Vertex, Axis of Symmetry, and Foci. |
| 8-2 | To Study Ellipses and how to Graph them and find the Center, and Foci. |
| 8-3 | To Study Hyperbolas and how to Graph them and find the Center and Foci. |

Approximately 3 Weeks

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| **Chapter 7** | **Systems of Equations and Matrices.** |
| 7-1 | To Solve Systems of Two Equations. |
| 7-2 | To Study Matrix Algebra for Additions, Subtraction, and Multiplication. Also, to Study Determinants and Inverses. |
| 7-3 | To Study Multivariate Linear Systems and Row Operations. |
| 7-4 | To Study Partial Fractions and how to find the pieces of those Fractions. |
| 7-5 | To Study Systems of Inequalities in Two Variable with Graphing and Shading. |

Approximately 4 Weeks

**Grading Breakdown:**

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

Tests- 70% which was designed by the leadership team.

Final- 10%