**Biology Class Syllabus**

**SEMESTER 1**

***Quarter 1*** August 20 - October 24

8/19 - 9/5 Intro to biology, scientific method, variables, measurement and metric system

9/4 & 9/5 Intro to biology test

9/4 -9/26 Unit 1 *Chemistry of Life,* macromolecules, chemistry, properties of H2O, and pH.

9/25-9/26 Unit 1 Test

9/29-10/23 Unit 2A *Cells,* microscopes, differentiating cell types, cell structure & function, and osmosis & diffusion.

10/21&10/22Unit 2A Test

***Quarter 2*** October 27 - January 15

10/27-11/7 Unit 2B *Cell* *Energy,* cellular respiration, photosynthesis and plants.

11/6-11/7 Unit 2B Test

1//10-11/13 Unit 3A Genetics - mitosis & meiosis

11/12-11/13 Unit 3A Test

11/14-11/25 Unit 3B Genetics - *DNA and Protien synsthesis,* transcription and translation

11/24-11/25 Unit 3B Test

12/1-12/18 Unit 3C Genetics - *Mendelian Genetics*, Punnett squares, probability, and traits.

12/17-12/18 Unit 3C Test

1/5 - 1/15 Unit 3D Genetics - *Non-Mendelian Genetics,* other patterns of inheritance and Punnett squares.

1/14-1/15 Unit 3D Big Quiz

**SEMESTER 2**

***Quarter 3*** January 19 – March 24

1/19-1/30 Unit 3D continued Genetics - *Non-Mendelian Genetics,* karyotypes, and pedigrees.

1/31- 2/20 Unit 4A *Evolution -* biological timeline, natural selection, adaptations, and selective breeding.

2/19-2/20 Unit 4A Test

2/23-3/12 Unit 4B *Classification* - hierarchy of classification, taxonomy, and biodiversity.

3/11-3/12 Unit 4B Test

3/13-4/17 Unit 5 *Structure and Function* - human and animal anatomy comparisons.

3/23-3/24 Unit 5 Test

***Quarter 4*** March 28 – June 3

3/28-4/17 Unit 5 *Structure and function* continued - plant characteristics and comparisons

4/16-4/17 Unit 5 Test

4/18-5-/28 Unit 6 *Ecology -* biomes, energy exchange, communities, Bio-geochemical cycles and nutrient transfer.

5/27-5/28 Unit 6 Test

5/31-6/1 Biology Comprehensive Final