**Principals of Human Inheritance**

**Instructor**: Mr. Evan Sonnenberg

**Website**: [www.sonnenbergscience.weebly.com](http://www.sonnenbergscience.weebly.com)

**E-Mail**: esonnenberg@wcpss.net

**Office Hours**: Wednesday 2:15 to 3:30

**Introduction**: This course will examine how genes are passed down to offspring. We will focus on the structure of genetic material, patterns of inheritance, and genetic disorders. We will also discuss how and why genes change within a population, driving evolution. The course will conclude with a discussion of modern genetic technology and any associated ethical issues.

**Unit 0: Scientific Methodology**

**Unit 1: DNA, RNA, and Protein Synthesis**

**Unit 2: Chromosomes, Genes, and Cell Division**

**Unit 3: Mendelian Inheritance**

**Unit 4: Evolution and Population Genetics**

**Unit 5: Genetic Disorders**

**Unit 6: Biotechnology and Bioethics**

**Grading Structure:**

 **Quarter Grades (80% of class average)**

20% Unit Tests (multiple choice)

 20% Labs and Projects

 20% Quizzes (open notes); printed materials not allowed

 20% Assignments (warm-ups, classwork, homework)

**Final Exam (20% of class average)**

**Required Materials**:

* Spiral notebook and folder, or 3-ring binder
* Colored pencils
* School laptop (every day)

**Classrooms Expectations**:

1. Be kind and respectful at all times.
2. Safety comes first in ALL lab and classroom activities.

**Attendance**:

It is **your** responsibility to see me about missed work. Notes and assignments will be posted on the website.

**Late Work**:

**Penalties for late work are significant**. Assignments submitted up to 24 hours late will be docked **20 points**. Assignments submitted more than 24 hours late will be docked **40 points**. If you are facing an extenuating circumstance or struggling to keep up with your work, please speak to me as soon as possible so that we can develop a plan to keep you on track.

**Retests/Corrections**

Any grade below an 80% on a **Test or Quiz** can be amended through test corrections or a retest up to a maximum of 80%. The student must come during PULSE Time or my office hours. Project or lab grades requiring adjustment must be determined on an individual basis.

I look forward to sharing biology with you and hope that you will find this class to be both challenging and enjoyable as we study the living world together!

Mr. Sonnenberg