Biology 20
Mrs. Tamara Szmata

Contact Information:

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Course Overview:

Biology 20 is intended to develop students' understanding and application of biological concepts and skills. The focus of this course is on understanding the biological principles behind the natural events the students experience and the technology they use in their daily lives. Biology 20 is an experimental discipline that develops knowledge, skills, and attitudes to help students become capable of and committed to setting goals, making informed choices, and acting in ways that will improve their own lives as well as life in their communities.

Primary Resource:

Ritter, et al. Biology. Nelson Publishing Co., 2007

Expectations of Students:

1. Students are expected to show up to class on time with a pen, binder, paper and all required textbooks.
2. Students are expected to listen when the teacher is addressing the class.
3. Students are expected to participate in class and to learn specific skills.
4. Students are expected to follow the rules of the class and treat others with respect and courtesy.
5. If you are absent, you are responsible for catching up on whatever work you have missed due to absences. All materials will be available through google classroom.
6. Any exams or quizzes missed due to excused absences must be made up.
7. Cell phones and other devices may only be used with teacher permission. During exams, all electronic devices will be placed in the "Cell Phone" Drop Box and remain there until the completion of the exam.

Scope and Sequence:

There are 12 chapters in Biology 20. Each chapter will be completed in 5 to 8 days including the test days. We will start with Chapter 1 and continue to Chapter 12.

Unit A: Energy and Matter Exchange in the Biosphere (~18 days)
- Chapter 1. The Biosphere as a Closed System
- Chapter 2. Energy Flow in the Biosphere
- Chapter 3. The Cycling of Matter in the Biosphere

Unit B: Ecosystems and Population Change (~20 days)
- Chapter 4. Characteristics of Ecosystems
- Chapter 5. Evolution

Unit C: Photosynthesis and Cellular Respiration (~16 days)
- Chapter 6. Photosynthesis
- Chapter 7. Cellular Respiration

Unit D: Human Systems (~34 days)
- Chapter 8. Nutrients, Enzymes and the Digestive System
- Chapter 9. Respiratory System and the Motor System
- Chapter 10. Circulatory System
- Chapter 11. Blood and the Immune System
- Chapter 12. Excretory System

Assessment:

Unit Exams	45%
Quizzes	15%
Assignments, Labs and Projects	10%
Final Exam	30%
	100%

Teaching Methodologies:

There will be a variety of instructional strategies utilized in Biology 20. These will include lectures, experiments, dissections, student and/or teacher demonstration, student research, films and field trip activities.

Other Points to Remember:

Students are expected to complete and hand in assignments on the due date. Pay close attention to the deadlines posted on the homework board.

Extra help will be available at lunch times and after school (depending on supervision duties). Please book times with me.

Keep track of your marks as they will be posted online on a regular basis. Our online marks system is used as a tool for teachers to communicate with students and parents about such things as attendance, marks, discipline, schedules, assignments, events, fees and graduation requirements.