

Biology – Mr. Ernzen

Course Description: This course is designed for those students who desire a thorough background in basic biology and a strong basis for further science study. The course of study in Biology includes all the major themes essential to understanding life. This is often achieved through problem solving, laboratory experiences, and group activities. The text material provides the factual foundation necessary to understanding the principles of life discussed in the course.

Alignment to the Iowa Core Curriculum:
Understands and applies knowledge of: cells, classification, respiration, photosynthesis, plants, animals, genetics, evolution, and organ systems.



Standards:

Understand and apply knowledge of the cell.

Understand and apply knowledge of the molecular basis of heredity.

Understand and apply knowledge of biological evolution.

Assessments: Formative – Small group and large group discussion.
Summative – Homework, quizzes and tests.

Content :

Semester 1

First Quarter

Chapter 1 – The Science of Biology
Chapter 2 – The Chemistry of Life
Chapter 7 – Cell Structure & Function

Second Quarter

Chapter 8 – Photosynthesis
Chapter 9 – Cellular Respiration
Chapter 10 – Cell Growth & Division
Chapter 11 – Introduction to Genetics

Semester 2

Third Quarter

Chapter 12 – DNA & RNA
Chapter 15 & 16 – Darwin's Theory of Evolution

Chapter 18 – Classification
Chapter 19 – Bacteria & Viruses

Fourth Quarter

Chapter 20 – Protists
Chapter 21 – Fungi
Chapter 22 – Plant Diversity
Chapter 31 – Comparing Invertebrates
Chapter 33 – Comparing Chordates
Dissection

Subject to change

Instructional Strategies : Large and small group discussions, Lab participation

Resources: Text: Biology by Miller & Levine – Prentice Hall 2008

Academic/Behavioral Expectations:

All assignments will be due on the date assigned when the project is given in class. If the assignment is not completed on time, apart from a verifiable reason, such as illness, the assignment will be worth only 50% of the original value.

If the assignment is not completed within the chapter it is assigned, it will be recorded as a 0 in the gradebook.

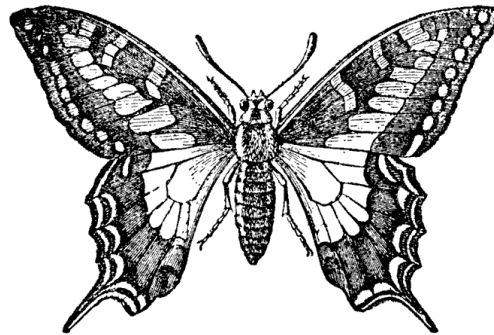
All students are expected to be in the room when the bell rings. Students will serve a 10 minute detention before or after school for the 3rd tardy and all subsequent tardies.

Students are reminded that biology is a lab course and they are expected to conduct themselves in an orderly and safe manner. Inappropriate behavior may result in the removal from the lab setting and 0 points.

Grading: Students grades will be based on daily assigned work, projects, and quizzes and tests to accompany each chapter.

Grading Scale:

100-93	A
92-90	A-
89-88	B+
87-83	B
82-80	B-
79-78	C+
77-73	C
72-70	C-
69-68	D+
67-63	D
62-60	D-
59-0	F



Extra Credit:
Opportunities for extra credit will be offered throughout the course, and can be used to enhance your grade. Extra credit is minimal and is not a substitute for daily work. In order too qualify for extra credit, students must have all daily work completed and on time for the current chapter in which the extra credit is offered.

Communication Plan:

Phone 563-552-5631

gernzen@dbqschools.org



Extra Help: If you have any concerns or questions about the course, or any general items, please feel free to talk to me. I will try to make the best accommodations possible to make your learning experience more successful. I am available first period, A lunch, and before and after school during non-coaching seasons