

COURSE REQUIREMENTS

CLASS: Biology Laboratory

TEACHER: Mrs. Henry

TEXT: *Biology by Stephen Nowicki, alternate textbooks, internet*

1. Homework: Homework is due at the BEGINNING of class. It will be graded on the attempt made to complete it. Some homework will be collected and each item graded on a total point basis. No credit is given for work turned in late. Remember, this is an biology laboratory class and MUCH work as well as individual reading must be done by the student for preparation of the class since you are meeting every other day. College level Case Studies from the University of Buffalo will be integrated into the class for study. Questions or essays will be used to complete the case studies. YOU must prepare yourself on a regular basis for the laboratories and the tests.
2. Classroom Activities and Labs: Group activities must have equal participation of all group members. All laboratory assignments will be written as a lab report. Your teacher will give examples of those types of reports later.
3. Projects: Projects and research papers are assigned at the beginning of the unit and have extended time for completion. Most projects are done alone or may have group partners. These are case studies and have various assessment styles—research papers, discussion groups, analytical projects, etc.
4. Quizzes: Quizzes are given at the end of a topic and may or may not be announced.
5. Tests: Tests are given at the end of a chapter or unit and are announced at least two days in advance. These tests are multiple choice, completion and essays. They may cover multiple chapters on a specific topic. Yes, we will review but remember that this is NOT junior high where you were given information to prepare you for the test. YOU need to read and study your notes and materials for the test.
6. Notebooks: All handouts, your written notes on the chapters, study guides, experiments and diagrams should be neatly kept and up to date in the student's biology notebook. This body of work will be collected and graded for completion at the end of each nine week grading period. The notebooks will be worth 100 points each.

Class Outline And Syllabus for Laboratory Biology

Laboratories—There are several labs which may be completed for this course. They are designed to cover key themes or concepts in the biology course. Some of them are:

1. Diffusion and Osmosis
 2. pH
 3. Mitosis and Meiosis
 4. Plant Pigments and Chromatography
 5. Fermentation
 6. Organic chemistry
 7. Genetics of Fruit flies
 8. Ecological brochure
 9. Adaptation
 10. Gross anatomy and physiology
 11. Animal Behavior
-in addition there may be many more paper, virtual, or video labs.

These labs will be written up for a grade. With each of the laboratories, you are expected to use your textbook as a resource for which you will READ and OUTLINE for class. BOTH the laboratory information and the pertinent chapter information will be covered within the chapter tests and quizzes.

Classroom lectures, labs and discussions—This yearlong course is designed to cover the following topics which are essential themes in this biology course:

- Introduction to Science and Biochemistry
- Cell Biology and Metabolism
- Evolution and Taxonomy
- Pathology and Immunology—protozoans, algae, viruses and bacteria
- Inheritance
- Population ecology
- Ecology and the environment
- Bioethics
- Human Biology
- Plant Biology