

Biology II Syllabus 2017-2018

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Course Description:

Biology II is designed to be a human anatomy & physiology class providing in depth knowledge of complex biological concepts and the intricacies of human anatomy. The course covers scientific methodology, human biology, human anatomy, human genetics, medical ethics, and evolution.

Class Fees:

Biology II is a lab class and as such has a \$10 lab fee per student to cover expenses for the entire year.

Grades:

Cumulative averages will be calculated using scores from tests, quizzes, lab exercises, reports, and projects. There will be a mid-term and final exam, one at the end of each semester. These exams will be *weighted* and account for 20% of the overall average each semester. Students should spend 15-20 minutes *per day* studying.

*****Warning*****Biology II - Human Anatomy is an exam and vocabulary intensive class. It *requires* significant study time and there will be vocabulary and identification quizzes **daily**.

Notebook:

Each student will be required to have a science notebook, preferably a stitch-bound composition book (commonly called a 'speckled-book' or 'marble-book'. These notebooks will be used for science class and will include all notes, vocabulary, assignments, reports, and assignments. Notebooks will be graded *frequently* and will be *weighted* to account for 10% of a student's grade each semester. *Your notebook will be used during the final exams, so not having a notebook will significantly affect your final grade.*

Research Projects

Students will be required to complete a research project *quarterly*. These projects are to be completed outside the classroom and require extensive time and research. Each project will account for 10% of a student's total grade each quarter.

Labs

Biology I students will be using the lab regularly and will be expected to participate in all labs. Lab reports are expected to be complete and on time. Many labs will require students to work cooperatively following all safety guidelines. Lab participation, activities, and reports will count as 10% of a student's grade. *Missed labs must be scheduled for make-up after school, within 4 days of returning to school.*

Final Exam

At the end of each semester, students will be given a final exam that will cover all information given during the semester. Final exams count as 20% of your grade. ******Final exams are **OPEN NOTEBOOK**, if you do not maintain a notebook you will have no reference material for the final exam.******

Student Responsibilities

- Study for exams and quizzes.
- Keep an organized notebook (10% of grade).
- Participate in all labs.
- Work hard.

Grade Weighting

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|-------------------------|-----|
| • Exams/Quizzes | 40% |
| • Mid-Term & Final Exam | 20% |
| • Classwork | 10% |
| • Notebook | 10% |
| • Labs | 10% |
| • Research Projects | 10% |

Grading Scale

A = 100-90%

B = 89-80%

C = 79-70%

D = 69-60%

F = Below 59%

Classroom Policies

- Respect others.
- Respect yourself.
- Follow directions.
- Be prepared and seated when the bell rings.
- Be punctual
- Pay Attention.
- Follow all polices and procedures.

1st Semester

Unit 1 Scientific Method & the Nature of Science

Unit 2 Biological Applications and Ethics

Unit 3 Biochemistry

Unit 4 Ecosystems & Biological Cycles

Unit 5 Populations & Communities

Unit 6 Environmental Biology

Unit 7 Introduction to Cells & Cell Structure

Unit 8 Cells and their Environment

2nd Semester

Unit 9 Photosynthesis & Cellular Respiration

Unit 10 Cell Growth & Mitosis

Unit 11 Meiosis & Sexual Reproduction

Unit 12 Mendel

Unit 13 DNA, RNA, and proteins

Unit 14 Genes & Mutation

Unit 15 Changes over Time

*****Late Work***** 50% is deducted for assignments each day they are late. A zero (0) will be recorded on Day 3.