

## Advanced Placement Biology

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**Text:** Campbell Biology 11<sup>th</sup> Edition

### Course Description

Course Description AP Biology is a yearlong course which is designed to be taken by students after the successful completion of both high school biology and chemistry. AP Biology includes those topics regularly covered in a college introductory biology course and differs significantly from the standards-based, high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work performed by students, and the time and effort required of the students. The textbook used by AP Biology is also used by college biology majors and the kinds of labs done by AP students are equivalent to those done by college students. AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. **This course is designed to prepare students for the Biology College Board Advanced Placement Exam.**

**Required Course Materials** - three ring binder, lined loose leaf paper, one 5 x 5 quadrille ruled composition notebooks (100 pages, 9 3/4" x 7 1/2"), graph paper, pens, pencils, highlighters, colored pencils (8 pkg.) and a calculator. Chromebook

**Assessment Grades** are calculated on a percentage basis. The value of each individual assignment varies. Students earn a grade based on the quality and accuracy of the work they complete. Overall class grades are based on a straight percentage, not a curve. Exams and Quizzes 50%, Labs and Lab Reports 25%, Homework / Readings 25%.

**Exams** At the end of each unit, an exam will be given in one class period. No extra time will be allotted for any student in order to prepare them for the time limit on the AP exam. Exams will be given on Schoology and/or paper. There are no makeups on any exam.

**Quizzes** At a minimum, one quiz will be given each week. Some quizzes will be announced and others will not. Quizzes will vary in format depending on the topic covered.

**Independent Study** Students will have one chapter of work to complete independently of chapter taught in class. This will be assigned in the beginning of each quarter with a due date.

**Summer Assignments:** Summer assignments will be due one day before the official first school day. A cumulative quiz on summer content will be given on the first day of school.

### AP Practice Exams

Students will complete practice AP exams in order to familiarize themselves with the format, timing and stress of completing the AP exam. These practice exams will be graded on the AP scale and count as a chapter test grade. Absent students will make up the exam on their own time.

AP Exam grades of 5 are equivalent to a 100%

AP Exam grades of 4 are equivalent to a 90%

AP Exam grades of 3 are equivalent to a 80%

AP Exam grades of 2 are equivalent to a 70%

AP Exam grades of 1 are equivalent to a 60%

**Final Exam Policy:**

- Students who have maintained a 90% or higher for their overall grade **AT THE TIME OF THE AP EXAM**, will be exempt from the final exam.
- All students with a grade lower than a 90% will be required to take the AP Biology Science Final Exam.

**No Excuse Northampton** All of the outline notes and worksheets can be accessed on Schoology. It is the responsibility of the student to print off notes for the upcoming chapters and have them on hand for class. If a student wishes to have a virtual notebook that is acceptable, but may be cumbersome to use for open notebook tests and quizzes. All lessons for the week will be posted on Schoology and absenteeism doesn't excuse a student from due dates. Late work will be accepted up to 3 days with point deductions. No points will be awarded after day 3.

**Lab Component** The laboratory experience is extremely important in the AP Biology course and is used to emphasize that biology and science is a process, which involves development and testing of a hypothesis, collection, analysis, and presentation of data with a clear discussion of the results. To ensure the lab component of the course is met, on average, 2 extra periods (EF) out of 6-day cycle is devoted to laboratory work. Students are required to come in to the laboratory prepared and ready to complete the day's procedure. **PLEASE DO NOT SKIP LAB.** As you know, Biology labs take time and use living organisms. I cannot make more time for a student who misses lab, nor can I purchase more live materials. 25% of the class is devoted to lab and you must be in class achieve full credit.

**Lab reports** are required for each of the recommended Inquiry-Based AP Biology Labs. These reports may include: title, introduction/background information, purpose, hypothesis, procedure, data/results, analysis, question, and conclusion. Students work in pairs to complete lab procedures, **but are responsible for turning in individual lab reports.** Most labs will be packet based. Please pay close attention to lab directives for that week.

# AP BIOLOGY

## *Ecology Unit*

- Chapter 51
- Chapter 52
- Chapter 53
- Chapter 54
- Chapter 55
- Chapter 56

## *Chemistry Unit*

- Chapter 3
- Chapter 4
- Chapter 5

## *Cell Unit*

- Chapter 6
- Chapter 7
- Chapter 8
- Chapter 9
- Chapter 10
- Chapter 12

## *Genetics Unit*

- Chapter 13
- Chapter 14
- Chapter 15
- Chapter 16
- Chapter 17
- Chapter 18
- Chapter 19
- Chapter 20
- Chapter 21

## *Evolution Unit*

- Chapter 22
- Chapter 23
- Chapter 24
- Chapter 25
- Chapter 26

## *Plant Unit*

- Chapter 38
- Chapter 39

## *Animal Form and Function Unit*

- Chapter 40
- Chapter 11
- Chapter 43
- Chapter 45
- Chapter 48/49
- Chapter 51