

AP Biology Syllabus

Mrs. Petersen

JPetersen@brownsburg.k12.in.us

Rm. SA 303 (317) 852-2258 x 1948

Class Overview:

AP Biology is a rigorous college level course designed to prepare you for the AP exam in May. Upon successful completion of the AP exam, you will earn college credits or will be able to test out of various college courses depending on your college of choice. There is a lot of outside reading and preparation required of you so that you can actively participate in class discussions about the material. PowerPoint slides prepared for and correlated to our textbook are posted on our class website, as well as chapter summaries and reading guides. You will be expected to do work outside of class and to meet with a study group to be properly prepared for this class. We must cover approximately 1 chapter per week to get through the required material before the exam in May.

Required Materials

The following materials should be brought to class daily. Textbooks can be taken home as I have a classroom set. There will also be a digital book available if you prefer. It is **highly recommended** that the students purchase a test prep and review book. College Board has reworked the curriculum so make sure that review materials are from 2020 on as they are changing many of our topics of study. Holtzclaw Preparing for the Biology AP Exam Test Prep Series book (ISBN: 9780136486930) would supplement the work we do in class with practice quizzes and tests. This workbook goes through chapter by chapter for our textbook. It can be used throughout the year to study for individual chapters and to study for the AP exam. Amazon usually sells this book but it is way cheaper to buy it directly from the publisher. At the time I created this document the cost was \$14.97 at the following url: <https://tinyurl.com/JPBio22>

- *Campbell AP Biology*, 11th edition,
- Folder or binder to keep materials
- Notebooks dedicated to AP Biology only
- Composition book with at least 100 sheets/200 pages to be used for lab only
- Blue or Black Pen
- 1-2 Sharpie Markers
- 2 or more different colored highlighters
- Colored Pencils
- Scientific or graphing Calculator approved by College Board
- Several packs of 3x5 index cards for making flash cards on a weekly basis
- Test Prep Book

Summer Homework

There is no required summer homework, but I would recommend that you work on it if possible. The video notes listed on the next page will be assigned at the beginning of school and will be due one week later. If you want more time to get them done, I suggest starting them early.

Video Notes

These notes will be written into your lab composition notebook. Please number each page of your lab notebook in one of the corners. Write Table of Contents on page 1. Any time we add labs to our notebooks, you will add in the titles for the activities on these beginning pages. Notes are to be *original work* and are not to be copied from a peer – these serve as a log of what you have learned from the video. Copying them from a peer and not watching the video will not earn credit.

- Each video's notes should be on a different page of your Lab Composition Book. Depending on how large you write, start on either page 3 or page 5 of your composition book and add the title to your table of contents.
- The video's title and content topic must be written on the top line of the page.
- The notes should be legibly handwritten.
- Highlighting or colors can be used to emphasize key points, new vocabulary, and/or important concepts.
- You may want to include pictures, charts, or graphs to display details provided in the video.

handwriting. #	Video Content	Links
1	The Nature of Science	https://youtu.be/77TFiYWPxoQ
2	The Scientific Method	https://youtu.be/SMGRe824kak
3	CER (Claim-Evidence-Reasoning)	https://youtu.be/5KKsLuRPsvU
4	AP Biology Science Practice 1 Models and Representations	https://youtu.be/v5Nemz_cVew
5	AP Biology Science Practice 2 Using Mathematics Appropriately	https://www.youtube.com/watch?v=jgqYlSKoXak&t=438s
6	AP Biology Science Practice 3 Formulate Questions	https://youtu.be/2zB272Ak63A
7	AP Biology Science Practice 4 Data Collection Strategies	https://www.youtube.com/watch?v=AzTXnne40wU
8	AP Biology Science Practice 5 Analyze Data and Evaluate Evidence	https://youtu.be/0JqkouOtZA
9	AP Biology Science Practice 6 Scientific Explanations and Theories	https://youtu.be/3gK1xWNM7kk
10	AP Biology Science Practice 7 Connecting Knowledge	https://www.youtube.com/watch?v=7l4bcs49JP8