**Advanced Placement Biology**

Mrs. Alison Stone

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Welcome to Advanced Placement Biology with Mrs. Stone. AP Biology is a college-level biology course designed by the College Board ®. It is intended to replicate a full year of college biology (two full semesters) and many colleges and universities will award college credit for students completing the course and succeeding on the AP exam in May. The AP Biology course has been designed around four “Big Ideas” and 6 Science Practices:

Scientific Practices:

# Course Materials:

Provided:

BIOLOGY 10th Edition by Campbell and Reece, 2013 Each student will sign out one book for the semester this book must be **covered**. The book is to be returned on the last day of class, if the correct book is not returned or is in an unacceptable condition the student will be charged the cost of the textbook. Link for a PDF copy of the textbook can be found on Canvas.

Needed: *(please contact me if financial circumstances prevent you from making these purchases)*

Headphones with a microphone that can plug into/connect to your district issued device.

A calculator (everyday! We will do MATH frequently)

Index cards (start with about 500) and I recommend 9 O-rings to organize them by unit

3-ring binder for handouts

Spiral bound notebook for reading notes

1.69oz Bag of Full-sized regular M&Ms

OPTIONAL:

4 colors of Expo Markers

Paper Mate [markers](https://www.amazon.com/Paper-Mate-Medium-Assorted-Colors/dp/B000J09CO6/ref=sr_1_2_sspa?dchild=1&keywords=papermate+markers&qid=1595960057&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyUzFXVzdXQUtXRUtRJmVuY3J5cHRlZElkPUEwNjUzMTEzMkdOQTRRNFJENThWOSZlbmNyeXB0ZWRBZElkPUEwOTgzMjg1MVRPRDhNWVQyOTVVNCZ3aWRnZXROYW1lPXNwX2F0ZiZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU=)

10 pack of [Playdoh](https://www.amazon.com/Play-Doh-Modeling-Compound-Non-Toxic-Exclusive/dp/B00JM5GW10/ref=sr_1_3?dchild=1&keywords=playdoh&qid=1595959891&sr=8-3)

**Tentative** Curriculum Outline:

Marking period 1:

\*Unit 1: Chemistry

Chapters 2, 3, 4, 5

\*Unit 2: Cells/Homeostasis

Chapters 6 and 7

Marking period 2:

\*Unit 3: Cell Energy

Chapters 8, 9, 10

\*Unit 4: Communication and Cell Division

Chapters 11 and 12

\*Unit 5: Genetics

Chapters 13, 14, 15

Marking period 3:

\*Unit 6: Molecular Genetics (DNA, Protein Synthesis, Regulation of Gene Expression)

Chapters 16, 17, and 18

\*Unit 7: Viruses, Bacteria and DNA Tech

Chapters 19, 20, 27

Marking period 4:

\*Unit 8: Evolution

Chapters 22, 23, 24, 25, 26

\*Unit 9: Ecology

Chapters 51, 52, 53, 54, 55, 56

Exam Preparation (3 weeks)

AP Exam Thursday May 16th

Unit 10: Body Systems (Mini units)

Chapters 40, 43, 45, 48

\*Required exam content

**Midterm Exam:** Units 1-5 (Chapters 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)

Questions to ask yourself before we begin:

1. Why are you taking this class?
2. What are your priorities?
3. Are you a strong reader?
4. How much time can you devote to the class?

If you are reconsidering your decision to sign up for this class please see me ASAP!

# Mrs. Stone’s Philosophy:

This course will be a challenge for all of us. My life experience has been that it is much more enjoyable to face a challenge as a team vs. as an individual. I would like you to think of us as a community working together to achieve a hefty goal (taking and passing the AP exam). You will be placed in small groups (we are going to call them your campfire groups). These groups will be form based on your replies to questions in your student survey. Expect that I will be disappointed if you let your team down by not preparing appropriately for class. But also expect that we will celebrate successes and achievements together.

Please remember that I am a member of your team, you need to trust me as a team member, and I need to trust you. I have an open-door policy, please come to me with concerns at any point. I will be asking for feedback about the class frequently throughout the year, I will need lots of feedback from you to improve your experience as we work through the content.

# Goal Setting:

Here are my goals for you this year:

1. You develop laboratory and study skills that make you a confident and independent learner.
2. You have an excellent foundation in biology as you enter college.
3. Every student experiences success. Success looks different for different students and does not always mean getting straight A’s.
4. Every student registers and plans to take the AP Exam in the spring. Read this [article](https://www.washingtonpost.com/local/education/a-test-of-critical-thinking-why-dont-all-ap-students-take-ap-tests/2018/12/06/01c3283c-f998-11e8-8d64-4e79db33382f_story.html) for my why.

# Evaluation:

Grade Scale

100 - 93 A 79 - 77 C+

92 - 90 A- 76 - 73 C

89 - 87 B+ 72 - 70 C -

86 - 83 B 69 - 67 D +

82 - 80 B- 66 - 63 D

Your grade in this class will be based on the following components:

**Summative:** Unit Exams 140 points each 2-3 per marking period, 2-4 Chapter Quizzes per marking period, 1-3 Formal Laboratory Reports 25 points each (CER form) per marking period, Laboratory Quizzes 1-3 per marking period.

**Formative:** Mini-projects, Quizzes, Classwork, Homework (mostly ungraded but there will be a few graded assignments).

* All students will participate in test remediation following exams. Please see the AP Biology [reassessment document](https://cbsd-my.sharepoint.com/:w:/g/personal/astone_cbsd_org/EbPAB_2cc0NJrwOFoweL6PUBAOhDOA1X3GVBZkjHqqVwew?e=qXyLmH) found under the syllabus tab on Canvas.
* Students who miss an exam day will receive a different version of the exam compared to students who took it during the appointed exam day.
* Spaced practice quizzes will be the only graded homework, each unit students will earn 10 formative points per unit for taking quizzes to proficiency on quiz due dates and then taking quizzes again in the days leading up to Unit Exams.
* Assignment point values will vary. Some assignments may not be graded but students will be provided feedback on all assignments.
* Some laboratories will be completed individually and some in groups. Do not rely on class time to complete laboratories I expect you to work on them outside of class. You will have at least one-week notice to complete formal laboratory reports.
* Please check Canvas for weekly assignments. I will post weekly agendas under *announcements*. Use this tool to plan your week appropriately.
* Your final grade consists of 7 components, 20% MP 1, 20% MP 2, 20% MP 3, 20% MP 4, 15% Midterm and Final and 5% for both cores.

# Additional Class Policies

**Show courtesy and respect** for others in the classroom as well as classroom materials.

**Demonstrate self-responsibility**.

**Check your email at least one time a day.** On occasion you may be receiving emails from me with important instructions and individualized feedback.

**Bring your computer CHARGED to class every day.** Please make sure you contact technology if you are having any issues with your device.

**This is a cell phone free classroom.** You will be asked to store your cell phone in its assigned slot in the cell-phone cabinet when you enter class each day. Please review this [letter](https://cbsd-my.sharepoint.com/:w:/g/personal/astone_cbsd_org/EertyjwWqgVEh5B64IHB750BqwsjfhHZndBYp538edrwsg?e=jFL7tC) if you are interested in the “why” behind this policy.

**Show pride in your own work**. Be creative and original, I am interested in your own ideas and ability to synthesize concepts. Copying and cheating will result in a zero. This includes using AI tools to generate responses. *Plagiarism will not be tolerated, and all school and district policies will apply*. When directed by a teacher, a student may copy LAB DATA (not calculations or questions) from a peer. In these instances, a citation should be provided. There is no other time when providing/accepting course materials from another person is acceptable. To be safe, you should never be in possession of another person’s course materials. Obviously, this includes electronic materials (i.e. images, sharing of files, etc.) and those generated in previous years by family members or friends.

**Late Assignments:** Students who submit assignments after the due date will not be eligible to receive feedback or resubmit work.

**Absence from Class:** Because of the large amount of information students will be required to learn in this course and frequent laboratory activities, regular attendance is extremely important. The student is responsible for making up all work missed during absences. Students should follow these procedures when absent:

Prior to returning to school:

1. Notify Mrs. Stone as soon as possible (communication is key!)
2. Check Canvas for the day’s agenda and due work.
3. Watch any recorded materials for the missed day.

When you return to school:

1. Email Mrs. Stone to arrange times to make-up laboratories and tests. As per the student handbook, a student is allowed the same number of days to make-up work as the number of days she/he missed for excused absences and lateness.
2. **Missed Assessments Due to Absence**: Students should expect to make up exams AFTER SCHOOL on a designated make-up day with Mrs. Stone. No other times will be acceptable including Lunch and Learn. Expect that your make-up exam will not be identical to the exam encountered by your peers at the scheduled exam time.

**\*\*\*If you are absent the day or days prior to an exam, but present on exam day you will still be expected to participate in the exam.**

**Before/After School Help:** Please see me if you need to schedule time to meet with me after school for additional help. You may contact me through email: [astone@cbsd.org](mailto:astone@cbsd.org) or my office phone (267) 893-2627. I cannot guarantee I will reply to emails after *8PM or before 6AM.*