



Honors Biology- Biomed
Course Syllabus 2021-2022
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Course Description

Biology is the study of life. The major units of study in this course will focus on the characteristics and chemical basis of life, cells and systems, the processes and transformation of energy within these living systems, DNA and the inheritance of traits, the uses and ethical aspects of applied genetics and biotechnology, evolution, the inter-relationships of cells, organs, systems, and organisms with each other and with the environment, and human impact on living systems and the environment. Throughout all of these units, we will reinforce the three dimensions of science learning: The Disciplinary Core Ideas, the Cross-cutting Concepts, and the Practices of Science.

Goals for Student Learning

Students will become proficient in the study of Biology in the areas listed above. Students will also be exposed to the following standards, concepts, and practices through their studies in this class:

NGSS: Next Generation Science Standards : <https://www.nextgenscience.org/overview-topics>

Disciplinary Core Ideas:- *Structure and Function* - *Matter and Energy in Organisms and Ecosystems*

- *Interdependent Relationships in Ecosystems* - *Inheritance and Variation of Traits*
- *Natural Selection and Evolution*

Cross-cutting Concepts: <https://ngss.nsta.org/CrosscuttingConceptsFull.aspx>

- *Patterns* - *Cause and effect* - *Scale, proportion, and quantity* - *Systems and system models*
- *Energy and matter* - *Structure and function* - *Stability and change*

Science and Engineering Practices: <https://ngss.nsta.org/PracticesFull.aspx>

- *Asking questions and defining problems* - *Developing and using models*
- *Planning and carrying out investigations* - *Analyzing and Interpreting Data*
- *Using mathematics and computational thinking* - *Constructing explanations and designing solutions*
- *Engaging in argument from evidence* - *Obtaining, evaluating, and communicating information*

Textbook and Materials

We will not have an official textbook to take home. For this course, you need the following:

- A notebook for only Biology or a dedicated section of your notebook for Biology
- A pen or pencil - Lined Paper --A strong work ethic and sense of curiosity

Course Outline

This is a general overview of the concepts and topics for the year:

- *Introduction to Biological Systems/Biochemistry*
- *Cells, Systems, and Homeostasis*
- *Molecular and Applied Genetics*
- *Evolutionary Biology*
- *Ecosystems, Biodiversity, and Human Impact*

Lab Expectations

CLOSED TOED SHOES ARE REQUIRED FOR ALL LABS! If you don't have closed toed shoes on a lab day you cannot participate in the lab! Long hair should be pulled back and sleeves should be up as well!

HCPS Grading Policy

Examples of Product, Process, and Practice		
PRODUCT (50%) <i>Culminating Demonstration of Knowledge</i>	PROCESS (30%) <i>Addressing Specific Short-Term Learning Outcomes</i>	PRACTICE (20%) <i>Building Attitudes, Habits, and Skills</i>
Does it measure how well students achieved specific learning goals, standards, and/or competencies?	Does it provide feedback to students regarding growth towards the attainment of specific learning goals, standards and competencies?	Does it allow students to practice skills and/or reinforce content learning?
<ul style="list-style-type: none">• Primarily completed in presence of teacher• Rubric aligned to standards• Accuracy graded	<ul style="list-style-type: none">• Primarily completed in presence of teacher• Rubric aligned to standards• Accuracy graded	<ul style="list-style-type: none">• Graded for completion and participation

****Extra credit will not be given for non-academic purposes****

Absent Work Policy

All assignments should be submitted on time. Students will be given the number of class periods equal to the number of lawful class periods absent to turn in completed make up assignments without penalty.

Late Work Policy

All assignments should be submitted on time in order to earn full credit. Any assignment, (*product, process, or practice*) will be allowed to be turned in late for one letter grade deduction from the grade a student earns on the assignment. In order to earn credit for late assignments, students must submit assignments by the end of the day on Wednesday (except for the last week of the quarter) following the designated HAC update. Students are only able to submit assignments that have an established due date within the grading window before the designated HAC update. Assignment that are turned in for late credit will be identified by a footnote in HAC to include a statement about the deduction of a letter grade due to the lateness of the assignment.

Grading Window	Designated HAC Update	Late Work Due Date
September 8- September 24	September 24	September 29
September 27- October 13	October 13	October 20
October 14- October 29	October 29	November 5 (Friday)
November 8- November 19	November 19	November 24
November 22- December 10	December 10	December 15
December 13- January 13	January 13	January 21 (Friday)
January 24- February 11	February 11	February 16
February 14- February 25	February 25	March 2
February 28- March 11	March 11	March 16
March 14- March 25	March 25	March 31 (Thursday)
April 1- April 22	April 22	April 27
April 25- May 6	May 6	May 11
May 11- May 20	May 20	May 25

Academic Integrity

Academic integrity is taking responsibility for the quality and completion of one's own work. Academic dishonesty is taking someone else's work and claiming it as one's own. Students at Bel Air High School are responsible for knowing what is considered to be Academic Dishonesty and the subsequent consequences. More information can be found in the BAHS Student Planner.

Cell Phone Policy

- Students will place their cellphones in a teacher designated area as they enter each classroom. Teachers will review with students the specific location for each room. The phones will remain in the teacher designated area unless teachers explicitly tell students to take out the phones for instructional use.
- Cellphones will remain in the teacher designated area during bathroom visits, assemblies and trips to the nurse/counseling office/main office.
- Cellphones will be retrieved from the teacher designated area at the end of class at the direction of the teacher.
- School-appropriate cellphone use is permitted during class changes and lunch. Students are not permitted to make phone calls during school hours.
- If the cell phone policy is violated, it is a referable offense.



Bel Air High School Digital Teaching and Learning (DTL) Virtual Learning Expectations and Norms

It is important to remember that the virtual classroom, while different from a face-to-face classroom setting, remains a classroom; subsequently, standards of professional behavior and expectations for polite interactions still exist.

“Good netiquette means conducting yourself in an online class with the same respect, politeness and professionalism that you would exhibit in a real-life classroom.” – Erin Lynch, Senior Educator at Test Innovators

All BAHS students are expected to adhere to the following expectations during online instruction.

Expectations for How to Communicate during Online Instruction

Remember: Human beings are on the other side of your written communication.

- ✓ **When communicating electronically, whether in the “chat,” through email, as part of a discussion post, in a shared document, or by some other method, your written words are read by real people, all deserving of respectful communication.**
 - Before you press "send" or "submit," pause and ask yourself, "Would I be okay with this if someone else had written it?" or “Would I be okay if someone said this to or about me?”
 - If your teacher incorporates a discussion board into a lesson, be cautious about attempts to use humor. Do not write anything that could be perceived as angry or sarcastic; without hearing the tone of your voice or being able to see your facial expressions, your peers might not realize you are joking.
 - Keep your posts appropriate to the assignment, polite, and kind.
 - Avoid posting anything in the “chat” during a Teams meeting unless directed to do so by your teacher.

- ✓ **Represent yourself professionally when communicating “verbally” (i.e. discussion boards, electronic chat, Socratic discussions, etc.).**
 - Know what you are talking about and state it clearly.
 - Be pleasant and polite.
 - Do not “YELL!!!” by using all caps or multiple exclamation marks, even if you disagree with what someone has written.
 - Be mindful of your use of emojis.
 - Check for spelling and grammar errors.

- ✓ **Present yourself professionally when communicating electronically.**
 - Make sure you are appropriately clothed.
 - Remember: Even though you are at home when participating online, you are still involved in a classroom setting and should therefore wear clothing appropriate for a school environment.

- ✓ **Use HCPS Student Email Only**
 - When it is necessary to send an email, email directly through your HCPS-student account. Students should not initiate communication with teachers via personal emails.
- ✓ Include **Course/Period (Ex: English 10/2A)** in the subject line of the message.
 - Failing to use your HCPS account and/or include **Course/Period** in the subject line may delay or prevent a response.
- ✓ **Adhere to the following writing standards**
 - Begin all email correspondence with an appropriate greeting/salutation.
 - Ex: *Hi, Ms. Jones,*
 - Tone is easily misunderstood in electronic exchanges; skipping this step can make your email sound unintentionally rude.
 - Provide some context for the purpose of your email.
 - Ex: *I'm emailing you because I can't remember how to submit my assignment on Itslearning.*
 - Teachers will need this context to provide you a specific response.
 - Make sure that your questions are direct but politely worded.
 - Ex: *Can you please remind me where I can find these directions?*
 - If your questions are too vague, your teacher will not be able to determine how to help you.
 - End your email with an appropriate closing.
 - Ex: *Thank you for your help.*
 - Skipping this step can make your email sound too curt or demanding.
 - Include your name after the closing.
 - Ex: *John Doe*
 - Proofread and spell check before you hit "send."

Sending an email with multiple typos is unprofessional and can interfere with the clarity of your message, as can use of abbreviations and slang. Email communication with school personnel is not synonymous with posts on social media such as Twitter or Snapchat. Punctuation matters. Capitalization matters. Formal language matters. Use these writing conventions consistently and purposefully, just as if you were communicating with your boss in a workplace setting.

Reminders about Your Digital Footprint

- ✓ Remember: Your account can be traced back to you easily, even if you post under an alias or a made-up handle. You leave data footprints whenever you are online. HCPS's Office of Technology can identify when you log on and off, when you access or open a folder or document, and when you submit an item. This data is all stored and can be retrieved.

Reminder about Academic Integrity

- ✓ Academic integrity is of the upmost importance whether you are learning in a traditional face-to-face environment or learning virtually. Please see the full BAHS student handbook for our academic integrity policy.