



AP Biology Exam Prep

Course Description & Goals

The Advanced Placement Program provides an opportunity for high school students to pursue and receive credit for college-level course work. AP Biology offers students the ability to participate in an internationally recognized program whose standards are widely known and highly regarded. Students can measure themselves against a challenging national collegiate standard and possibly receive college credit and/or advanced standing for their work. Even if credit is not awarded, admission offices recognize the rigor of AP courses on a transcript and may factor them in when determining college acceptance. AP students are also well prepared and confident about handling advanced work because they have already been performing at that level. The revised AP Biology exam, instead of focusing on broad topics, tests students on their critical-thinking abilities and performance in inquiry-based curriculum. This 12-week course provides a review of each of the topics and prepares the student to earn a score of 5. All lectures are given in English.

Instructor

John Kim – STEM & ROOT Academy Founder

Class Schedule

- Feb 11 – May 6 (12 sessions) Saturday 4:30-6:30 PM (PT), **No Class: 3/25 (Sat) (Spring Break)*
- Simulation Tests (6 Full Sets)

**AP BIO Exam Date: May 10th, 2023*

Units of Instruction

Topic	Chapters (Campbell)	AP Exam weighting
Unit 1: Chemistry of Life	1-5	8-11%
Unit 2: Cell Structure and Function	6-7	10-13%
Unit 3: Cellular Energetics	8-10	12-16%
Unit 4: Cell Communication and Cell Cycle	11-12	10-15%
Unit 5: Heredity	13-16	8-11%
Unit 6: Gene Expression and Regulation	17-21	12-16%
Unit 7: Natural Selection	22-27	13-20%
Unit 8: Ecology	52-56	10-15%



Class Format

- Zoom (Live Online) - Lecture
- Google Classroom
 - Providing Lecture Materials and other materials
 - Assigning / grading HW
 - Communicating with students
 - Keeping students informed of current and upcoming events

Course Materials

- **Textbook: Campbell Biology (Pearson)** 10th or newer edition, Reece, Urry, Cain, Wasserman, Minorsky, Jackson. (Purchase via Thriftbooks, Amazon, Chegg, E-bay, etc. **prior to the first class**)
- **We will provide all class materials** (Lecture slides, handouts, Simulation Tests, etc.) except the textbook.
- 3- ring binder (or other organizer of choice for lecture notes and handouts): **Lecture materials should be printed out** and organized in order.
- Calculator

Class Policies, Expectations and Rules

- Join every class on time (**5 min prior to each class**) with your materials (lecture notes, textbook, supplementary handouts) out and ready.
- Spend 30 minutes (**right before each class**) reviewing/previewing materials.
- Turn on webcam and **show your face**. I would like to see what you are up to, just as you would be required to attend in-person classes.
- Take notes while listening to my lecture.
- Actively participate in Q&A during the class.
- Submit weekly assignments on time (due date/time for each HW will be set/notified via google classroom)
- Eating and drinking is allowed only if it does not cause any distraction.



Assignment Submission

- Homework must be submitted by **8PM (PT) a day before** the following class. Assignments will be graded as soon as possible such that students have enough time to make corrections and know what questions to ask before class.
- Your homework must be submitted as one **PDF or google doc file only**. (No photos such as .jpeg)
- Recommended PDF file converters or apps to write on PDF files
 - For PC, use www.docthub.com : jpeg → PDF conversion
 - For Mac/Ipad: PDFelement, PDF expert, PDF pen, Flexcil, Notability, Documents, Onenote, etc.
 - No Kami App– not compatible with google classroom. But if you still want to use Kami, generate PDF file using the app first and use docthub.com to do PDF → PDF conversion. Submit PDF file generated from the “docthub.com”

Notification of Absence & Make-up Policies

- Students/parents must notify STEM & ROOT Academy as promptly as possible of any absence (**at least 24h prior to a scheduled class**)
- If a student is going to be absent from class, we will send you a recording of the live lecture. You can also find the full content of the class in our google classroom so you can follow along and do homework.
- Make-up recording will be available only for **1 week**, until the following class.

Academic Dishonesty

Plagiarism (the practice of taking someone else's work or ideas and passing them off as one's own) is a severe offense. Examples of Academic Dishonesty include (not an exhaustive list): **copying work from another student or the internet, using online searches to find answers to questions**, posting answers to assignments online.