



# 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

## Lecture

1. Self-paced. No grading provided (Answer keys will be provided instead)
2. **Previously recorded live lecture videos (2023 Spring) will be provided.**
  - Disregard dates mentioned in videos.
  - No live Simulation Test session provided. (Simulation test materials will be provided)
3. **12 sessions \* 2 hours = 24 hours** in total.
4. You have unlimited access to all 12 lecture recordings **until Monday, May 5, 2025** (2025 AP Bio exam date).



## Course Materials

- **We will provide all class materials** except the textbook.
  - 1) Campbell biology textbook slides
  - 2) AP Bio summary packets
  - 3) Mini end of unit quizzes
  - 4) 6 Simulation Tests & answers
  - 5) 5 FRQ practice packets with answers
  - 6) Supplementary materials
- **Textbook: Campbell Biology (Pearson)** 10th or newer edition, Reece, Urry, Cain, Wasserman, Minorsky, Jackson.
- 3- ring binder (or other organizer of choice for lecture notes and handouts): **Lecture materials should be printed out** and organized in order.
- Calculator (Graphing calculator is allowed even if we do not need it)

## Registration

After you complete the registration, we will invite you to join Google Classroom, where you can access course materials and other relevant information. Additionally, we will send you 12 recorded lecture videos.

## 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%