



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

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: Recording
12 classes (24 hours)

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

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.