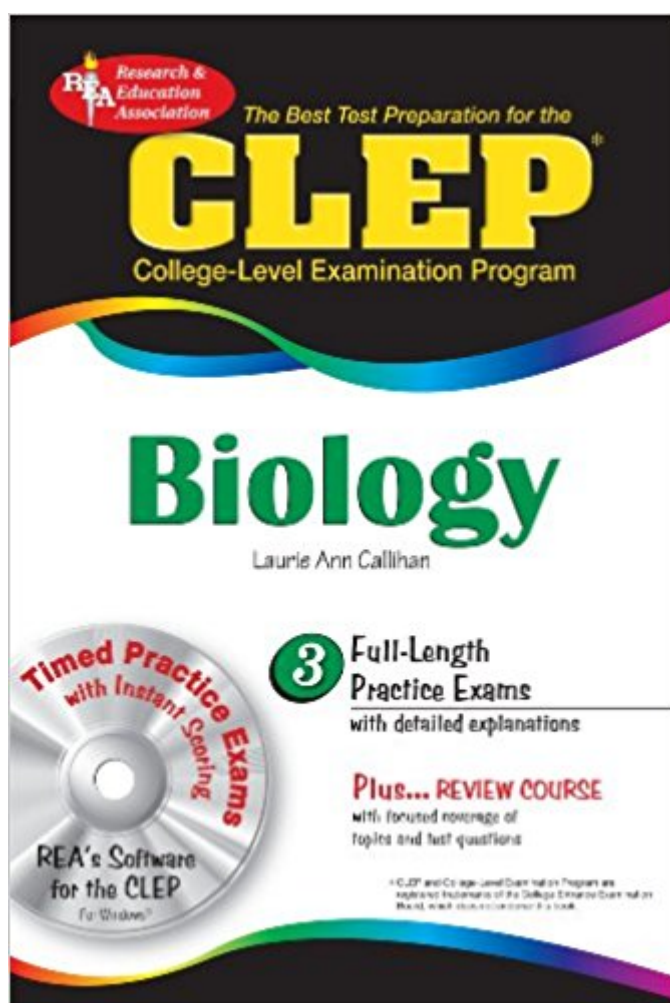


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# CLEP Biology (REA) With CD-ROM - The Best Test Prep For The CLEP Exam: With REA's TESTware (Test Preps)



## Synopsis

Get those CLEP college credits you deserve.. our savvy test experts show you the way to master the test and get the score that gets you college credit. This newly revised biology edition comes complete with 3 full-length practice exams devised from the real exam. All exams are fully answered in explicit detail. Comprehensive review chemistry of biology, cellular and molecular biology, plants/botony, animals/zoology, principles of heredity/genetics, population biology and evolution. Fully indexed for quick searches. Follow up your study with REA's test-taking strategies, powerhouse drills and study schedule that get you ready for test day. Also features REA's popular software, TESTware, with full-length, timed, computerized practice exams that give you the closest thing to experiencing a live exam at a testing center. Automatic scoring provides immediate feedback. For Windows.

## Book Information

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## Customer Reviews

About Research & Education Association  
Research & Education Association (REA) is an organization of educators, scientists, and engineers specializing in various academic fields. Founded in 1959 with the purpose of disseminating the most recently developed scientific information to groups in industry, government, high schools, and universities, REA has since become a successful and highly respected publisher of study aids, test preps, handbooks, and reference works. REA's Test Preparation series includes study guides for all academic levels in

almost all disciplines. Research & Education Association publishes test preps for students who have not yet completed high school, as well as high school students preparing to enter college. Students from countries around the world seeking to attend college in the United States will find the assistance they need in REA's publications. For college students seeking advanced degrees, REA publishes test preps for many major graduate school admission examinations in a wide variety of disciplines, including engineering, law, and medicine. Students at every level, in every field, with every ambition can find what they are looking for among REA's publications. While most test preparation books present practice tests that bear little resemblance to the actual exams, REA's series presents tests that accurately depict the official exams in both degree of difficulty and types of questions. REA's practice tests are always based upon the most recently administered exams, and include every type of question that can be expected on the actual exams. REA's publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals, instructors, librarians, parents, and students. Our authors are as diverse as the fields represented in the books we publish. They are well-known in their respective disciplines and serve on the faculties of prestigious high schools, colleges, and universities throughout the United States and Canada.

### Chapter 1: PASSING THE CLEP BIOLOGY CBT

#### ABOUT THIS BOOK AND TESTware

This book will provide you with an accurate and complete representation of the CLEP Biology computer-based test, or CBT. Inside you will find a complete review of biology as well as tips and strategies for test taking. We give you three full-length practice tests, all based on the official CLEP Biology subject test. Our practice tests contain every type of question you can expect to encounter on the actual exam. Following each practice test you will find an answer key with detailed explanations designed to help you master the test material. Practice Tests 1 and 2 in this book and software package are included in two formats. They are in printed form in this book, and in TESTware format on the enclosed CD. We recommend that you begin your preparation by first taking the practice exams on your computer. The software provides timed conditions, automatic scoring, and scoring information, all of which makes it easier to pinpoint your strengths and weaknesses.

#### ABOUT THE EXAM

Who takes the CLEP Biology CBT and what is it used for? College-Level Examination Program, or CLEP, tests are usually taken by people who have acquired knowledge outside the regular classroom and wish to bypass certain college courses and earn college credit. The CLEP program is designed to reward students for learning - no matter where or how that knowledge was acquired. The CLEP is the most widely accepted credit-by-examination program in the United States. Although most CLEP candidates are adults returning to college, many graduating high school seniors, enrolled college students, international

students, military personnel, and home-educated students also take the exams to earn college credit or to demonstrate their ability to perform at the college level. There are no prerequisites, such as age or educational status, for taking CLEP examinations. However, you must meet any specific requirements of the particular institution from which you wish to receive CLEP credit. Most CLEP examinations include material usually covered in an undergraduate course with a similar title to that of the exam. However, five of the exams do not deal with subject matter covered in any particular course but rather with material taken as general requirements during the first two years of college. These general exams are English Composition (with or without essay), Humanities, College Mathematics, Natural Sciences, and Social Sciences and History.

**Who administers the exam?** The CLEP is developed by the College Board and administered by the Educational Testing Service (ETS). The test development process is designed and implemented to ensure that the content and difficulty level of the test are appropriate.

**When and where is the exam given?** The CLEP Biology Examination is administered each month throughout the year at more than 1,200 test centers in the United States, and can be arranged for candidates abroad on request. To find the test center nearest you and to register for the exam, you should obtain a copy of the free booklets, CLEP Colleges and CLEP Information for Candidates (with registration form), which are available from most colleges where CLEP credit is granted. They are also available for downloading from [www.collegeboard.com/clep](http://www.collegeboard.com/clep) or by contacting: College-Level Examination Program P.O. Box 6600 Princeton, NJ 08541-6600 Phone: (609) 771-7865 E-mail: [clep@info.collegeboard.org](mailto:clep@info.collegeboard.org)

**HOW TO USE THIS BOOK**

**What do I study first?** Before plunging into the topical review, take Practice Test 1 to pinpoint your areas of strength and weakness. With this run-through under your belt, you'll get more of what you need out of our topical review and thus make more efficient use of your valuable study time. In the meantime, be sure to familiarize yourself with the format and procedures involved with taking the actual exam. A full six-week study schedule, which, if necessary, can be compressed into a three-week plan, is outlined in the front of this book.

**When should I start studying?** It is never too early to start studying for the CLEP Biology Examination. The earlier you begin, the more time you will have to sharpen your skills. Do not procrastinate! Cramming is not an effective way to study, since it does not allow you the time needed to learn the test material. The sooner you learn the format of the exam, the more time you will have to familiarize yourself with it.

**FORMAT OF THE CLEP BIOLOGY CBT**

The CLEP Biology CBT covers the material one would find in a one-year college-level biology class. The exam stresses basic facts and principles, as well as general theoretical approaches used by biologists. There are approximately 110 multiple-choice questions, each with five possible answer choices, to be answered in 90 minutes. The exam is administered on

a computer. For more practice with the computerized format, visit the CLEP Web site at [www.collegeboard.com/clep](http://www.collegeboard.com/clep). The approximate breakdown of topics is as follows: 33% Molecular and Cellular Biology- Chemical composition of organisms- Cells- Enzymes- Energy transformations- Cell division- Chemical nature of the gene 34% Organismal Biology- Structure and function of plants with emphasis on angiosperms- Plant reproduction and development- Structure and function in animals with emphasis on vertebrates- Animal reproduction and development- Principles of heredity 33% Population Biology- Principles of ecology- Principles of evolution- Principles of behavior- Social biology

**ABOUT OUR COURSE REVIEW** The topical review in this book covers all the pertinent principles and concepts of biology. It will help reinforce the facts you have already learned while better shaping your understanding of the discipline as a whole. By using the review in conjunction with the practice tests, you will optimize your chance for success on the CLEP Biology CBT.

**SCORING THE CLEP BIOLOGY CBT** How do I score my practice tests? The CLEP Biology CBT is scored on a scale of 20 to 80. To score your practice tests, count up the number of correct answers and enter the result on the scoring worksheet below. This is your total raw score. Convert your raw score to a scaled score using the conversion table on page 8. (Note: The conversions in this book will give only an estimation of your scaled score. Since scaled scores vary from one form of a test to another, your score on the actual exam may be higher or lower than what appears on the chart.) ETS, which uses a rights-only scoring system to grade CLEP exams, does not subtract any credit for incorrect answers, so there is no penalty for guessing.

**When will I know my score?** Since the CLEP is computerized (except for some tests at some U.S. military locations), scores are available immediately upon completion. If you believe you did not do well on the exam, you may request that the test be deleted and not scored - but you may do so only before you have received your score. If you choose this route, your score will consequently not appear on your CLEP transcript. You will not be refunded the fees paid for a deleted test. Unless you ask to have them sent elsewhere, your scores are reported only to you. If you want your scores reported to a college or other institution, you must indicate this when prompted by the computer. Your scores are kept on file for 20 years, so you may also request transcripts from ETS at a later date.

**TEST-TAKING TIPS** Although you may not be familiar with computer-based standardized tests such as the CLEP Analyzing and Interpreting Literature exam, there are many ways to acquaint yourself with this type of examination and help alleviate your test-taking anxieties. Listed below are ways to help you become accustomed to the CLEP, some of which may be applied to other standardized tests as well. Become comfortable with the format of the exam. CLEP CBTs are not adaptive but rather fixed-length tests. In a sense, this makes them kin to the familiar paper-and-pencil exam in that you

have the same flexibility to go back and review your work in each section. Moreover, the format hasn't changed a great deal from the paper-and-pencil CLEP. When you are practicing, simulate the conditions under which you will be taking the actual test. Stay calm and pace yourself. After simulating the test only a couple of times, you will boost your chances of doing well, and you will be able to sit down for the actual exam with greater confidence. One more thing: you're likely to see some so-called pretest questions on the CBT, but you won't know which they are and they won't be scored. Read all of the possible answers. Just because you think you have found the correct response, do not automatically assume that it is the best answer. Read through each choice to be sure that you are not making a mistake by jumping to conclusions. Use the process of elimination. Go through each answer to a question and eliminate as many of the answer choices as possible. By eliminating just two answer choices, you give yourself a better chance of getting the item correct, since there will only be three choices left from which to make your guess. Work quickly and steadily. You will have only 90 minutes to work on 80 questions, so work quickly and steadily to avoid focusing on any one question too long. Taking the practice tests in this book will help you learn to budget your time. Learn the directions and format for each section of the test. Familiarizing yourself with the directions and format of the exam will save you valuable time on the day of the actual test. Familiarize yourself with the CLEP CBT screen beforehand by logging on to the College Board Website. Waiting until test day to see what it looks like in the pretest tutorial risks injecting needless anxiety into your testing experience. Be sure that your answer registers before you go to the next item. Look at the screen to see that your mouse-click causes the pointer to darken the proper oval. This takes far less effort than darkening an oval on paper, but don't lull yourself into taking less care!

**THE DAY OF THE EXAM** On the day of the test, you should wake up early (after a decent night's rest, one would hope) and have a good breakfast. Make sure to dress comfortably, so that you are not distracted by being too hot or too cold while taking the test. Also plan to arrive at the test center early. This will allow you to collect your thoughts and relax before the test, and will also spare you the anxiety that comes with being late. As an added incentive to make sure you arrive early, keep in mind that no one will be allowed into the test session after the test has begun. Before you leave for the test center, make sure that you have your admission form and another form of identification, which must contain a recent photograph, your name, and signature (i.e., driver's license, student identification card, or current alien registration card). You will not be admitted to the test center if you do not have proper identification. Consult College Board publications (including the [Collegeboard.com Website](http://Collegeboard.com)) for details.

**During the Exam** Once you enter the test center, follow all of the rules and instructions given by the test supervisor. If you do not, you risk being dismissed from

the test and having your scores canceled. Finally, the exam will be upon you. Here's what to expect:- Scrap paper will be provided to you for all CLEP CBT examinations.- At times your computer may seem to slow down. Don't worry: the built-in timer will not advance until your next question is fully loaded and visible on screen.- Just as you can on a paper-and-pencil test, you'll be able to move freely between questions within a section.- You'll have the option to mark questions and review them.- You may wear a wristwatch to the test center, but it cannot make any noise, which could disturb your fellow test-takers.- No computers, dictionaries, textbooks, notebooks, scrap paper, briefcases, or packages will be permitted into the test center; drinking, smoking, and eating are prohibited. After the ExamOnce you have informed the test center administrator that you've finished, you will end your session on the computer, which in turn will generate the printout of a score report. Then, go home and relax - you deserve it!

I took the CLEP biology last week and got a 72. I used this book and a 5 year old college biology text book to prepare. The key to passing this exam is application. There are no questions where in you just recall the information. Nearly all the questions force you to apply the information to a situation. This book was my primary source but the material here is just barely deep enough to be able to read the questions. You are not challenged by this book to apply the information. If you went through and memorized the book cover to cover but didn't fully understand you are most likely not ready to take the exam. I do have a background in Human Anatomy (which has a small portion of overlap when it comes to cells and chemistry) and that was helpful with this exam. There are lab questions on this exam which are fairly tough and there is no information in REA's book regarding the lab portion. If you have no background in biology I strongly recommend you use a college text book! If you insist on using the book alone I think it can be done but I recommend you give yourself a 12-15 point cushion. I.e. if you are scoring better than 65 (and you need a 50) on the REA's practice exams you may be ready for real exam. I did this very gradually over the course of about 8 weeks. The method I used to study was simple. 1. I read through the book once and took the first test. (which after taking the clep is clearly too easy). 2. read through the book again and then begin to read the chapter summaries from the college text book. 3. took the other two exams (the last one is ONLY in the book not on the CD) as well as answer the questions at the end of each chapter looking up the answers to the ones I didn't know. 4. On the college board website there is a list of the material covered and it is a great representation of what is on the exam. If you understand the basics of every thing on that list, and you are passing the REA's exams you will be fine. Every thing on the list seemed to be treated equally... in other words I didn't notice any one topic being covered

significantly more than any other thing on that list. This list (from CLEP's office site) was my main guide for me deciding when I was ready to take the test. Please note I didn't read the entire biology text book (it is huge) I only read the chapter summaries to make sure I get the main points and could answer most of the questions at the end of each chapter. Good Luck!

read over it one time, good info in the book. hits the highlights of biology well.

I ordered this book with slight apprehension because a couple of the more recent reviews claimed that the book was outdated. Personally, I think it's fine. In preparing for the CLEP, I read this book extremely thoroughly and made flash cards with key ideas and vocabulary. This said, I never make flash cards as a study tool. However, I did so because other reviews said that you need to know everything in this book. I would agree. You need to know EVERYTHING in this book. I did the 3 practice tests and earned scores of 74, 77, and 76. After taking those practice tests, I flipped through the Princeton Review's AP Biology review guide and found some things to be extremely helpful. I wouldn't recommend studying things that aren't briefly mentioned in the REA version. I just used it as a supplement to get better explanations on certain topics. The REA version lined up exactly with the CollegeBoard's syllabus of topics to know, so I felt confident in taking the exam. The only other study tools I used were YouTube videos for certain topics (transcription, translation, meiosis) and the CollegeBoard's 2009 Official CLEP Study Guide from my library which had one 60 question test (also available on-line). On that test, I got a 48 of 60 questions correct. I found the laboratory questions to be extremely simple. (However, I did get a 36 on the science portion of my ACT, and found those types of questions to be nearly identical [mostly interpreting graphs and experiments].) Because this practice test was made by CollgeBoard, I felt that it gave me a good representation of the actual exam. In the end, I scored a 70 on the actual exam which was just enough to earn me credit for 2 semesters of freshman biology at my university. For some of the questions, there is no good way to study for them and you must rely on prior knowledge. I didn't think that these questions were too difficult. Watching 5 years of Discovery Channel (not frequently) and paying attention in my high school classes provided me with everything I need to know. Overall, I would not choose a different primary review guide because nothing is as concise or complete. Best of luck!

Signed up for 1st semester biology, then decided to take this test to save time and money. Last time I took biology was my freshman year of high school 20 years ago, so I was just a BIT rusty. Studied



for 2.5 weeks, used Campbell for some of the better diagrams of plant anatomy, citric acid cycle, cell division, etc. Used YouTube for some excellent visuals on DNA replication, transcription and translation. Practice test scores: 70, 67, 80. Actual CLEP score: 68. The CLEP difficulty level seemed much harder than the practice exams, and there were 115 questions as opposed to 110 on the practice exams. Surprisingly, I ran out of time and didn't get to go back and answer 4 questions I had left BLANK. Moral: Don't leave any blank in the unlikely event that you run out of time!

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