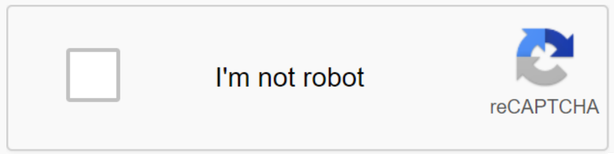

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Biology end of course test study guide

Photo by Rina Pitucci.Welcome returns to Mid-Week Meditations, Lifehacker's weekly dip in the pool of stoic wisdom, and a guide to using the water to reflect on and improve your life. This week's lineup comes from Seneca. In his moral letters (88.7), he describes the real lessons to be learned from Homer's The Odyssey: Do you raise the question: Through which regions did Ulysses disappear? instead of trying to prevent us from going astray at all times? We have no leisure to hear lectures on the question of whether he was sea-tost between Italy and Sicily, or outside our known world (in fact, as long as a wanderer could not possibly have taken place within its narrow borders); We ourselves face storms of spirit, which toe us daily, and our depravity drives us into all the evils that plagued Ulysses. For us, it never lacks the beauty to tempt our eyes, or the enemy to attack us; On this side are wild monsters that rejoice in human blood, on the side the treacherous allures of the ear, and yonder are shipwrecks and all the varied category of accidents. Show me rather, by example of Ulysses, how I will love my country, my wife, my father, and how, even after suffering shipwrecks, I shall sail towards these ends, honorable as they are. What it means Scholars and students – from antiquity to the present day – struggle to try to find out and remember all the names, dates and places from Homer's epic, but all these details are beside the point. Take a closer look at this line:Show me rather, by example of Ulysses, how I will love my country, my wife, my father, and how, even after suffering shipwrecks, I shall sail towards these ends, honorable as they are. For Seneca, the real lessons of this story are the moral lessons. I know, surprising, right? The odyssey is not about cyclops monsters, Trojan horses, or braving stormy seas; It's about love, honor, temptation, hubris and perseverance. When you learn new material, it can be overwhelming when you think about how much time you ... Read moreWhat you can take from itBack at school, teachers may have asked you for details from a book, lecture, tour or film to see if you were actually watching the material. It's a system that sometimes works, but it envelops the wrong approach to education in our minds. Instead of focusing on the real lessons of a story—why—we learned instead to note who, what, when, and where. We learned to study for testing. It's time to stop it if you haven't already. Most of us are out of school now and there are no longer tests for us to study for. It's time for you to learn to study just for you. When reading books, watching movies, and watching plays, look for ways to apply the lessons the characters learn in your own life. Unless you plan to be a quiz wins, there is no need to remember all the small details details Don't make you a better person. Biology is a massive discipline: thousands of courses and programs devote for the attention of prospective students. Narrowing the many worthy options can be difficult. That's where this search tool comes into play. Users can search based on various parameters such as subject, institution, cost of participation, and application length. It is a biology program for any situation, from students who want to prove their knowledge via certificate or pursue lifelong careers in the field to those who just want to learn more. Here are some of the reasons why students can choose to take a certain path. Many universities and MOOC websites offer online biology courses covering topics from cell structure to ecology. Here are some of the most quality biology classes from across the web along with details one might consider before enrolling. Molecular Evolution Offered by: UC San Diego via Coursera Price: $49 Length: Six Weeks Format: Video lectures, reading assignments and quizzes Eligible for college credit?: No students will learn how to make evolutionary trees and how scientists can determine genetic similarities among extinct and living animals. For example, students will be able to explain how scientists know that today's birds evolved from dinosaurs. Network Analysis in System Biology Offered by: Icahn School of Medicine at Mount Sinai via Coursera Price: Free (revision) or $49 (verified certificate) Length: Six to eight weeks Format: Video lectures and quizzes Eligible for college credit?: No This course teaches statistical and mathematical methods commonly used in the study of system biology. Students will learn how to analyze genetic data for future research endeavors. A background in cellular biology, calculus and statistics is recommended. Genome Sequencing Offered by: UC San Diego via Coursera Price: $79 Length: Five Weeks Format: Video lectures, reading assignments, quizzes and peer review assignment Qualified for college credit?: No This intermediate course teaches the mathematical principles behind the human genome. Part 1 addresses how science helps us interpret small parts of human DNA. Part two studies antibiotics and how they can be synthetically created using techniques similar to those used to read human DNA. Introduction to Systems Biology Offered by: IEEEx via edX Price: Free (revision) or $49 (verified certificate) Length: Four weeks Format: Video lecture Eligible for college credit?: No Systems biology examines the role of biological organisms in an entire ecosystem. Students enrolled in this course use basic mathematical principles to model biological behavior, so an understanding at the secondary school level of mathematics is sufficient. Sharks! Global diversity, biology and conservation offered by: Cornell University & University of Queensland edX Price: Free (revision) or $49 49 Certificate) Length: Four Weeks Format: Video Lectures Eligible for College Credit?: No This course examines movement, habits and history sharks to teach students how life changes and adapts over time. The Chemistry of Life Offered by: Kyoto University via edX Price: Free (revision) or $49 (verified certificate) Length: 15 weeks Format: Video lecture Eligible for college credit?: No The Chemistry of Life combines the two sciences of biology and chemistry, which are usually taught separately, to teach students how to develop innovative research ideas No previous biology or chemistry knowledge required. An introduction to basic biology Offered by: Udemy Price: $20 Length: 30 lectures over about eight weeks Format: Video and audio lectures, exams, PowerPoint, quizzes and an online textbook Eligible for college credit?: No As the title indicates, this basic course covers high school and first year college material. Students will explore basic biological concepts such as cellular respiration and genetics. No prior biology knowledge is required. A mathematical way of thinking about biology Offered by: Udemy Price: Free Length: 134 lectures spanning 15.5 hours Format: Video lectures Eligible for college credit?: No This intermediate course looks at biology from a physical science perspective and provides a basis for quantitative biology. Incoming students should be familiar with algebraic, calculus and statistical concepts. Sensory systems offered by: MIT Open CourseWare Price: Free length: Self-propelled but originally offered over about 13 weeks Format: Video lecture, lecture notes in PDF format, written reports and online reading material. Eligible for college credit?: No This course examines the physiological basis of human and expensive senses. In particular, the coursework examines the neurological works of the senses, such as vision (color and pattern) and hearing (response and sound localization), and the relationship between senses and behaviors. Principles of Human Disease Offered by: MIT OpenCourseWare Price: Free Length: Self-Propelled but Originally Offered Over 12 Weeks Format: Online Reading Material, Problem Sets and Writing Papers Pray in PDF Format Eligible for College Credit?: No This course explains the modern approach to human disease from both biological and treatment perspectives. It focuses on the genetic component of diseases, especially cancer, and their cellular and molecular foundations. From professional marketing or personal enrichment to promoting their degrees, there are many reasons why students can take biology courses online. Here are some of the most compelling 1 Effective method of learning a biological specialization Medical and biology professionals explore various problems, problems and situations with which they may be unknown. online class is ideal for situations where browsing in a textbook is but sign up for a full program is overkill. Online courses enable students to gain much-needed knowledge in a practical, manageable learning medium. 2 Students do not have to choose between education and work oOnline degrees are growing in popularity as students realize how valuable and flexible they can be. Online learning is a boon for working professionals whose classroom participation is difficult, including working professionals who want to gain more knowledge without sacrificing work and research experience. 3 Wide variety of in the biology field Biology has many subdisciplines that often interact. An environmental scientist may need to know a lot about microbiology, for example. How can that scientist gain the in-depth knowledge necessary about microbiology without having to earn another degree? Standalone online biology courses can help scientists expand their knowledge base and improve their work. Biology is not an easy science to learn; Some of the smartest minds in the world are still trying to figure out how certain biological processes work. This means that students and professionals in the field of biology are likely to appreciate all the help they can get. The following list of apps can make it a little easier to learn about biology. Free see description Science Dictionary This program is an excellent resource for anyone who studies or works in science, including biology. It defines important scientific terms along with sound statements and images. Free watch description Complete biology Complete biology is a comprehensive app aimed at high school and students. Features include practice test questions, tutorials and common formulas. This program is an excellent study tool for biology coursework. Free watch description Gene Screen In addition to teaching about genetics and heredity, the Gene Screen app offers calculators to determine the prevalence and arvability of certain diseases and genetic characteristics. Free see description Basic statistics Basic statistics are not a true biology app, but it is very useful for those in the academic or professional biology realm, thanks to the prevalence and importance of statistics in the study of biology. Much of the app consists of explanations and notes of basic statistical concepts. You have created many online biology courses. What are your most important considerations when building them? The biggest mistake people make in creating online biology courses: they try to mimic the classroom setting. In other words, they take the dullest, least effective method of education on Earth, and then digitize it. Instead, use guidance as a starting point. Our Vohra Method courses, for example, are based on strict, socratic style guidance. Khan Academy courses are inspired by the more famous didactic style of guidance. What about laboratory work? Depending on your goals, you can get benefits (if there are any) of the laboratory parts of a non-online biology course either by watching videos of laboratories, or by interning in a research laboratory. Watching some demonstration videos can help strengthen your understanding of abstract concepts. Working in a lab can show you how boring it can be to work in a lab and help you decide if you actually want to do it. What are some of the best online biology certifications or courses for professionals who want to advance their careers? University graduates and those who opted out of college should consider the GRE Biology Test. Like the AP, this is a knowledge and understanding test. You don't need to have a bachelor's degree or have had a few hours in class. It just measures what you know, not how much time you've wasted in a traditional classroom. Anything else you want to say about online biology programs? Online education is the future. It already makes to non-online education what Netflix did with Blockbuster. Even students in traditional schools rely on online videos of world-class teachers rather than school classes. Topics that are both information-proof and concept-heavy, such as biology, especially benefit from the online approach. Approach.