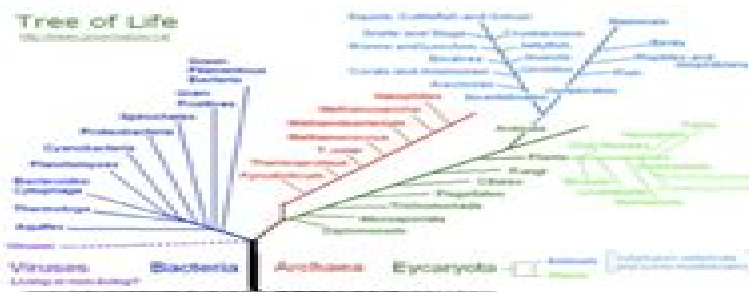


Biology Exam 1 Study Guide

Lecture 1 → Introduction to Biological Science

Tree of Life

- Domains
 - Eukarya → visible life
 - Split into animals and plants
 - Very small portion
 - Bacteria → single cell
 - Make up most of life's branches
 - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
 - Archaea → original domain of life
 - More closely related to eukaryotes than eubacteria, first branch of life
 - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches



Destruction and Mass Extinction

- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once, wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
 - fossil record shows conservation of homologous structures
 - Molecular proof: same DNA and RNA protein in cells
 - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
 - Scopes taught evolution illegally; resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
 - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower the temps "compatible" with life

College Freshman Biology Study Guide

David E. Sadava



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K and W Guide to Colleges for Students with Learning Disabilities Or Attention Deficit Disorder Marybeth Kravets, Imy F. Wax, 2003-09-02 Hundreds of thousands of students with learning disabilities head to college every year. The challenges seem endless. Aside from coping with difficulties in learning, students and their families face the daunting process of seeking out the right school for their specific needs. This indispensable resource includes advice from specialists in the field of learning disabilities, learning disabled programs, admission requirements, and graduation policies. Services available to learning disabled students at each college, tutors, note takers, oral exams, extended test time, and more. Policies and procedures regarding course waivers or substitutions. Names, phone numbers, and email addresses of program administrators at each school. Strategies for finding the right program for each student's needs. In addition to the 338 schools profiled, a Quick Contact Reference List provides essential program information for another 1,000 schools. Resources in Education, 1996-10

Sterling's College Admission Survival Guide Junior Year Stephen Charles Sterling, Dorothy Roman Sterling, 2006-05 Sterling's College Admission Guide is the college and university guide for understanding the entire college admission process. *Projects in Higher Education* National Science Foundation (U.S.), 1976 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1978 Programmed Learning and Individually Paced Instruction Carl H. Hendershot, 1973

The Student Athlete's Guide to College Success Algerian Hart Ph.D., F. Erik Brooks, 2016-11-21 An invaluable guide for potential collegiate student athletes, this guide presents strategies to assist student athletes with life skills both inside and outside of the classroom and athletic arenas. Student athletes must overcome a gauntlet of challenges in order to be successful in college. This guide supports student athlete success by identifying various potential issues and providing specific guidance and advice based on the author's direct experience and insider knowledge. It presents potential collegiate athletes with a wide-ranging and inclusive view of the intercollegiate sport experience and a comprehensive explanation of the role of the student athlete. This book is a comprehensive guide for student athletes and their families that will assist in deliberating scholarship offers from multiple institutions and setting a course for success in college. Readers will be equipped to determine which scholarship option and, in some cases, which sport or sports is the optimal choice, be knowledgeable about their financial aid options, and the rules of recruiting, and be prepared with a list of suggested questions that American student athletes should ask coaches and recruiting officials wishing to pursue their talents. This guide provides the essential strategies that will enable student athletes to gain life skills both inside and outside of the classroom and athletic arenas. A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 *Life, Vol. II: Evolution, Diversity and Ecology* David E. Sadava, 2008 Co-published by Sinauer Associates Inc and W H Freeman and Company. Visit the Life Eighth Edition preview site. LIFE HAS EVOLVED from its original publication to this dramatically revitalized Eighth Edition. LIFE has always shown

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