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analyze interpret and evaluate a range of scientific literature in microbiology display proficiency in fundamental bioinformatic skills needed to investigate gene function and understand the general methods utilized in the field of microbial genomics microbiology is the study of bacteria viruses the immune system and their roles in human health the environment and beyond job prospects for microbiologists with a bachelor s or higher degree continue to be strong the bs program in microbiology with a concentration in medical microbiology is tailored for students who wish to pursue careers in medicine other health professions medical microbiology or biomedical research microbiology is concerned with the growth and development physiology classification ecology genetics and other aspects of the life process of an array of microscopic generally single celled organisms and viruses in the bs degree program in microbiology students will develop an understanding of microorganisms their interrelationships with other organisms and their influence in biomedicine and biotechnology they investigate the fundamental nature of microbes explore the role of microbes as model experimental subjects and examine the significant this degree specializes in the study of bacteria and other microbes primarily at the cell and molecular level and focuses on disease causing microbes the microbiology core and elective requirements include specialized microbiology courses necessary to qualify for certification by the national registry of microbiologists american society of the department of plant and microbial biology pmb offers an undergraduate major program in microbial biology leading to a bachelor of science bs degree microbial biology focuses on small life forms such as microbes viruses and fungi that make up the majority of planetary biomass microbiology bs the degree program in microbiology is designed to provide a comprehensive education in the biology of microorganisms a graduate of this program will have a thorough grounding in the classical areas of microbial physiology and biochemistry microbial genetics and developing areas like the molecular biology of microorganisms the microbiology b s degree trains students who plan to pursue careers as professional microbiologists in health environmental governmental or industrial laboratories explore courses required to complete this degree at arizona state university on the microbiology bs major map microbiology immunology and molecular genetics bs the ucla general catalog is published annually every effort has been made to ensure the accuracy of the information presented in the ucla general catalog northern arizona university s department of biological sciences offers you this exciting bachelor's degree in microbiology be prepared for a dynamic career in a variety of fields including infectious diseases clinical trials or in preparation for a graduate degree the degree program in microbiology is designed to provide a comprehensive education in the biology of microorganisms a graduate of this program will have a thorough grounding in the classical areas of microbial physiology and biochemistry microbial genetics and developing areas like the molecular biology of microorganisms the bs in microbiology is a specialized implementation of the biomedical science concentration within the department of biological sciences that is modeled on the degree recommendations of the american society of microbiology understand safe laboratory practices and perform basic molecular biology techniques generate hypotheses evaluate data and design experiments to investigate a scientific problem and present broad knowledge in biochemistry genetics evolutionary biology cell biology developmental biology physiology and ecology microbiology covers the majority of topics found in a first year microbiology text with a distinct leaning toward medical microbiology while one section covers the role of microbes in biogeochemical cycles the majority deals with human pathogens and methods to control them microbiology is the study of microorganisms those being unicellular single cell multicellular cell colony or acellular lacking cells microbiology encompasses numerous sub disciplines including virology parasitology mycology and bacteriology our biology program helps you develop the skills in critical thinking quantitative problem solving and scientific research that provides the foundation for success in future biological related careers with the help of your faculty adviser you can tailor your coursework to meet your educational and post graduation goals a combined bs ms degree in microbiology is an opportunity for qualified undergraduates in microbiology to begin the masters program in microbiology during their undergraduate senior year and to complete the microbiology master's degree the following year part one fundamentals of microbiology the microbial world and you chemical principles observing 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