

HEALTH SCIENCE & MEDICAL TECHNOLOGY PATHWAY: BIOTECHNOLOGY

Year	Recommended Pathway Science Courses	Miramar Community College Articulation
9	<p>Biology 1-2 Introductory study of living things and learn how bodies perform life functions. Meets UC/CSU "D" requirement.</p>	
10	<p>Chemistry 1-2 Chemistry 1-2 is a laboratory science course, which will focus on major principles and concepts of chemistry. Emphasis will be placed on the study of physical chemistry, thermodynamics, equilibrium, stoichiometry, kinetics, atomic structure and chemical bonding, and acid/base. Students will learn problem-solving skills through laboratory investigation and inquiry into complex and real-world problems. Students will demonstrate insights into the connections between physical observations and the abstract models created to explain the observations. This course has been approved to meet the UC/CSU "D" or "G" requirement.</p>	
11 (options)	<p>Human Biology 1-2 Students will study forensic science, infectious disease, topics in medical ethics, human body organ systems, including nervous, muscular, skeletal, circulatory, respiratory systems. Meets UC/CSU "D" or "G" requirement.</p> <p>AP Biology 1-2 and AP Biology Seminar Advanced Placement Biology is equivalent to an introductory Biology course found at the freshman University level. The course features a biochemical approach to the study of life and included three major areas of study: Molecules and Cells, Genetics and Evolution, and Organisms and Populations. Meets UC/CSU "D" or "G" requirement.</p>	
12	<p>Biomedical Technology 1-2 (capstone) The Biomedical Technology 1-2 course is an advanced course built off skills from the Biology, Human Biology, and Chemistry courses to prepare students for further education and/or employment options in the Biotechnology Industry. The goal of this course is to familiarize students with the protocols, equipment, and techniques used in this field to better prepare them for a future in Biotechnology. The course will allow students to learn about biomedical research, the pharmaceutical industry, and the critical issue of bioethics. This course is aligned to PUSD and State Standards for Science. Meets UC/CSU "D" or "G" requirement.</p>	<p><i>This course is at no cost and is articulated with Miramar Community College course BIOL 131 'Introduction to Biotechnology' for 4 transferrable college units.</i></p> <p><i>The student will receive college credits upon completion of the CTE Transitions Credit by Exam certification process with a grade of 80% 'B' or better. College instructor will administer exam at scheduled location.</i></p>