



**CAREER PLAN OF STUDY:** BIOMEDICAL

**CAREER CLUSTER:** HEALTH SCIENCE

**CAREER PATHWAY:** THERAPEUTIC SERVICES

**SAMPLE OCCUPATIONS:** BIOMEDICAL ENGINEER, BIOLOGICAL SCIENTIST, GENETICIST, ACUTE CARE NURSE, CRITICAL CARE NURSE, DENTAL HYGIENIST, MASSAGE THERAPIST, MEDICAL ASSISTANT, MEDICAL AND CLINICAL LABORATORY TECHNICIAN

**BIOMEDICAL SCIENCES PROGRAM OF STUDY**

CTE Courses offered grades 9-12

Offered at Red Mountain High School

**CERTIFICATION:** Biotechnician Assistant Credentialing Exam (BACE)

HIGH SCHOOL PLAN OF STUDY	GRADE	Suggested Program of Study					OTHER REQUIRED COURSES
		CAREER AND TECHNICAL EDUCATION COURSES	ENGLISH (4 Credits)	MATH (4 Credits)	SCIENCE (3 Lab)	SOCIAL STUDIES (3 Credits)	
	9	HE70 Principles of the Biomedical Sciences	EN09 - Freshman English	MA27 - Algebra I	SC09 - Essential Elements of Science	SS22 - World History/ Geography	<b>Practical Art - 1 Credit</b> OR ↓
	10	HE 71 Human Body Systems	EN47 - Sophomore English	MA30 - Geometry	SC49 - Biology		<b>Fine Arts 1 credit</b>
	11	HE 72 Medical Interventions	EN48 - Jr. English	MA40 - Algebra II	SC71 - Chemistry	SS35 - American/AZ History	<b>PE - 1 Credit</b>
	12	HE73 Biomedical Innovation <b>OR</b> CT57 Biomedical Sciences Internship	EN49 - Sr. English	MA45-PreCalculus <b>OR</b> MA42 - College Algebra/Trigonometry		SS51 - Government and SS57 Principles and Practices of Economics	<b>World Language - 2 Credits</b> <b>university entrance</b>
LEGEND	CTE Program of Study meets practical art requirement		<b>**Dual Enrollment Option - College credit may be available</b>				
	<i>Refer to each university's website for specific admission requirements</i>						
POST SECONDARY	COMMUNITY COLLEGE		UNIVERSITY			TECHNICAL	
	Mesa Community College <a href="http://mesacc.edu/high-school/career-pathways">http://mesacc.edu/high-school/career-pathways</a>		Arizona State University <a href="https://webapp4.asu.edu/programs/t5/undergrad">https://webapp4.asu.edu/programs/t5/undergrad</a>			East Valley Institute of Technology <a href="http://www.evite.com/programs/">http://www.evite.com/programs/</a>	
	Gateway Community College <a href="http://www.gatewaycc.edu/healthcare">http://www.gatewaycc.edu/healthcare</a>		Northern Arizona University <a href="http://www.nau.edu">www.nau.edu</a>				
			University of Arizona <a href="http://degreesearch.arizona.edu/">http://degreesearch.arizona.edu/</a>				
<b>Go to <a href="http://www.mpsaz.org/cte/programs">www.mpsaz.org/cte/programs</a> for more information on this and other CTE Programs of Study.</b>							
CAREER PLANNING LINKS			PROFESSIONAL ORGANIZATION LINKS				
<a href="http://www.mpsaz.org/cte">MPS Career and Technical Education - www.mpsaz.org/cte</a>			<a href="http://www.asee.org">American Society for Engineering Education - www.asee.org</a>				
<a href="http://www.mpsaz.kuder.com">MPS Career Planning System Navigator - www.mpsaz.kuder.com</a>			<a href="http://www.asabe.org">American Society of Agricultural and Biological Engineers - www.asabe.org</a>				
<a href="http://www.mpsaz.org/mymps">MyMPS - www.mpsaz.org/mymps</a>			<a href="http://www.bmes.org">Biomedical Engineering Society - www.bmes.org</a>				