



**BIOTECHNOLOGY
PROGRAM OF STUDY**

CTE Courses offered grades 9-12

CAREER PLAN OF STUDY: BIOTECHNOLOGY

CAREER CLUSTER: SCIENCE, TECHNOLOGY, ENGINEERING & MATH

CAREER PATHWAY: SCIENCE TECHNICIAN

SAMPLE OCCUPATIONS: Biotechnologist, Biomedical Engineer, Biochemist, Biophysicist, Biologist, Chemist, Geneticist, Quality Control Scientist, Research Technician, Lab Technician, Marine Biologist, Environmental Scientist, Zoologist, Research Scientist, Neurologist, Microbiologist, Forensic Science Technician, Evidence Technician

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	*AG30 Applied Biological Sciences	EN09 - Freshman English	MA27 - Algebra I	SC49 - Biology	SS22 - World History/ Geography	Practical Art - 1 Credit OR ↓
	10	**SC48 Biotechnology I	EN47 - Sophomore English	MA30 - Geometry			Fine Arts 1 credit
	11	**SC54 Biotechnology II	EN48 - Jr. English	MA40 - Algebra II	SC71 - Chemistry	SS35 - American/AZ History	PE - 1 Credit
	12	SC92 Scientific Research OR CT59 Biotechnology Internship	EN49 - Sr. English	MA45-PreCalculus OR MA42 - College Algebra/Trigonometry		SS51 - Government and SS57- Principles and Practices of Economics	World Language - 2 Credits university entrance
LEGEND	CTE Program of Study (Meets practical art requirement)		**Dual Enrollment Option - College credit may be available				
	Refer to each university's website for specific admission requirements						
POST SECONDARY	COMMUNITY COLLEGE		UNIVERSITY				
	Mesa Community College http://mesacc.edu/high-school/career-pathways		Arizona State University https://webapp4.asu.edu/programs/t5/undergrad			University of Arizona www.arizona.edu	
	South Mountain Community College http://biosci.southmountaincc.edu/		Northern Arizona University www.nau.edu				
Go to www.mpsaz.org/cte/programs for more information on this and other CTE Programs of Study.							
CAREER PLANNING LINKS				PROFESSIONAL ORGANIZATION LINKS			
MPS Career and Technical Education - www.mpsaz.org/cte				American Academy of Forensic Sciences - www.aafs.org			
MPS Career Planning System Kuder Navigator - www.mpsaz.kuder.com				Biotechnology Industry Organization - www.bio.org			
MyMPS - www.mpsaz.org/mymps				American Chemical Society - www.acs.org			