

Biotechnology Research and Development

<i>Cluster Overview:</i> Focuses on careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.			Medical Scientist (19-1042), Biostatistician (15-2041), Biochemist (19-1021).		Student Name:Grade: School: EXTENDED LEARNIN	
Middle School	8th	HS Courses:			Curricular Experiences: Health Occupations Students of NASA Research Program	America
High School	9th	Core Courses:	English IWorld GeAlgebra IPhysical IBiologyLanguage			
		Career-Related Electives:	Principles of Health Science			
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II	Career Learning Experiences: Career Preparation	
		Career-Related Electives:	Medical Terminology		Internship Job Shadowing	
	11th	Core Courses:	English III Algebra II Physics	United States History		
		Career-Related Electives:	Health Science Technology I or Anatomy English III	and Physiology or Precalculus or Languages other than		COLLEGE CREDIT OPPOR
	12th	Core Courses:	English IV AP Statistics AP Biology or AP Chemistry	Government/Economics Fine Arts	Students should take Advanced Place articulated courses (Tech Prep), if pos	ment (AP), International Baccalaureat ssible. List those courses that count fo
		Career-Related Electives:	Health Science Technolog II or Pathophys English IV or Advanced Biotechnology	siology or Medical Microbiology or Languages other than		
	On-the-Job Training	Assay Analyst				
	Certificates (OSHA CareerSafe	OTE: These experiences may be started and/or completed as part of the high school experience. SHA CareerSafe OTE: Students may earn all or part of these certificates as part of the high school experience.			
Postsecondary	Associate Degrees	Applied Science				Forensic Science Technician Environmental Technician Research Assistant
	Bachelor Degrees	Biology Biomedical Engineerin	Biotechnology ng Chemistry	Forensic Science Statistics	<i>Career Options:</i> Biomedical Engineer Biotechnologist	Forensic Scientist Clinical Trials Coordinator Environmental Technologist
	Graduate Degrees	Epidemiology Biological Science	Forensic Science	Independent Research	<i>Career Options:</i> Epidemiologist Biostatistician	Bioinformatics Scientist Forensic Scientist Research Scientist
	Student	s may select other elective cou	urses for personal enrichment purposes.		This plan of study serves as a guide, along v	vith other career planning materials, for pu

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	Extracurricular Experiences:
	Language Immersion Programs
	School Newspaper
	Science Club
	STARS Research Program
	Student Government
	UIL Academic Competitions
	Service Learning Experiences:
	Boy Scouts of America
	Campus Service Organizations
	Community Service Volunteer
	Girl Scouts of the USA
	Peer Mentoring / Peer Tutoring
	Science Camps
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TUNITIES -- High School

te (IB), dual credit, Advanced Technical Credit (ATC), or locally r college credit on your campus.

	Professional Associations: <u>American Academy of Forensic Science</u> <u>American Chemical Society</u> <u>American Society</u>
	American Society for Microbiology <u>American Statistical Association</u> <u>Association for Professionals in Infection Control</u> <u>and Epidemiology</u> <u>Biotechnology Industry Organization</u>
	National Academy of Sciences National Environmental Health Association Texas Environmental Health Association
oursuing ents.	a career path and is based on the most recent information as of 2009. All