

High School to College and Career Pathway: Secondary

Area of Study: Health Science Education



Pathway: Biotech Research & Development Biotechnology

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																										
7 th Grade	8 th Grade	Middle School	High School	9 th Grade Suggested	10 th Grade Suggested	11 th Grade Suggested	12 th Grade Suggested	Beyond High School																											
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts 4.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"> > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training <p>Biotechnology is:</p> <ul style="list-style-type: none"> > High skill > High demand <p>Sample Occupations</p> <ul style="list-style-type: none"> > Biochemist > Biotechnology Technician > Health Science Education Teacher > Immunohematologist > Laboratory Asst. > Microbiologist > Toxicologist <p>For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org.</p>																											
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math 3.00	Geometry 1.00	Intermediate Algebra 1.00	Pre-calculus 1.00	Calculus or Statistics 1.00																												
Science .50	Science 1.00	1.50	Science 3.00	Biology or Human Biology 1.00	Chemistry 1.00	Additional credit 1.00																													
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																												
P.E. 1.00	Health .50	1.50	P.E./Health 2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																														
The Arts .50	The Arts .50	1.00	Fine Arts 1.50	Fine Arts Courses 1.50																															
			Financial Literacy .50				Financial Literacy .50																												
Keyboarding .50			Computer Tech. .50	Computer Technology .50																															
CTE Intro 1.00		1.00	Career and Technical Education 1.00																																
<p>Workforce Trends While biotechnology is still in its infancy, it is a dynamic career field that is expanding by leaps and bounds. "Biotechnology has become the centerpiece of therapy of all ailments, from heart disease and cancers to the common cold," says Carl B. Feldbaum, president of the Biotechnology Industry Organization (BIO).</p> <p>Get the Facts Biotechnology is predicted to be one of the most important applied sciences of the 21st century.</p>		<p>Core Curriculum and elective requirements may vary district to district. Check with your school counselor.</p> <p>Concurrent enrollment course offerings vary by school and district.</p>		<p>Career and Technical Education Recommended Pathway Courses (Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.) CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</p> <table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>51.1201</td> <td>Biotechnology</td> <td>1.00</td> </tr> <tr> <td colspan="3">Elective Courses:</td> </tr> <tr> <td>51.0001</td> <td>Health Science, Introduction *</td> <td>.50</td> </tr> <tr> <td>51.1399</td> <td>Medical Anatomy & Physiology</td> <td>1.00</td> </tr> <tr> <td>51.0799</td> <td>Medical Terminology</td> <td>.50</td> </tr> <tr> <td>51.9999</td> <td>Medical Math</td> <td>.50</td> </tr> <tr> <td>51.1199</td> <td>Health Science, Advanced (capstone course)</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> </tbody> </table> <p>* It is preferred that this course be taken prior to any foundation course.</p> <p>3.00 credits for completion</p>					Course #	Foundation Courses: (required)	Credit	51.1201	Biotechnology	1.00	Elective Courses:			51.0001	Health Science, Introduction *	.50	51.1399	Medical Anatomy & Physiology	1.00	51.0799	Medical Terminology	.50	51.9999	Medical Math	.50	51.1199	Health Science, Advanced (capstone course)	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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				<p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>																															

Note: For more information, talk to your school counselor.