

**HIGH SCHOOL DISTRICT SAN DIEGUITO UNION HS DISTRICT**

**COLLEGE MiraCosta College**

**INDUSTRY Health Science & Medical Technology**

**PATHWAY: Biotechnology Research & Development**

**PROGRAM: Biotech Lab Technicians & Professionals**

This program of study is a sample pathway.  
Speak with a counselor to establish your individual career plan.

<b>Signature of Secondary Administrator:</b>	<b>Date:</b>
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<b>Signature of Postsecondary Administrator:</b>	<b>Date:</b>
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		GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	Required - Recommended Elective - Other Elective and Career & Technical Education Courses	
<b>ADULT LEARNER ENTRY POINTS</b>	<b>SECONDARY</b>	9	English 9	Geometry	Biology		Introduction to Technology Introduction to Biotech	P.E./Health
		10	English 10	Algebra II	Chemistry	World History	Health Care Essentials (ROP)	
		11	English 11	Pre-Calculus	Physics	U.S. History	Biotech I	World Languages
		12	English 12	Calculus	Other Science	American Government Economics	Biotech II	Internship World Languages Senior Project
<b>Successful Completion of MiraCosta College Math and English Competency Exams</b>								

		Laboratory Skills Certificate of Proficiency total 11-12.5 units required	Bioprocess Technology Certificate of Proficiency total 12-12.5 units required	Research & Development Certificate of Achievement total 40-43.5 units required	
<b>ADULT LEARNER ENTRY POINTS</b>	<b>POSTSECONDARY</b>	1st Semester	BTEC 110 (4) & BTEC 120 (3)	BTECH 110 (4) & BTEC 211 (1) & BTEC 120 (3)	ENG 100 (4) & MATH 101 (4) & BIO 101 (3) OR BIO 105 (3)
		2nd Semester	Select at least 4 elective units from the following: BTEC 201 (1), BTEC 202 (1), BTEC 203 (1), BTEC 204 (1), BTEC 206 (1), BTEC 207 (1), BTEC 210 (1), BTEC 211 (1), BTEC 215 (1.5), BTEC 221 (1.5), BTEC 222 (1.5), BTEC 292 (1), BTEC 299 (1)	BTEC 221 (1.5) & BTEC 222 (1.5) & Select at least 1 course from the following: BTEC 210 (1), BTEC 215 (1.5), BTEC 292 (1), BTEC 299 (1)	BTEC 120 (3) & BTEC 180/BIO 180 (4) & CHEM 108 (3)
		3rd Semester			BTECH 110 (4) & CHEM 110 (5) & either CIS 100 (3) OR CIS 105 (3) OR CIS 152 (1.5)
		4th Semester			CHEM 111 (5) & select at least 4 elective units from the following: BTEC 201 (1), BTEC 202 (1), BTEC 203 (1), BTEC 204 (1), BTEC 206 (1), BTEC 207 (1), BTEC 211 (1), BTEC 215 (1.5), BTEC 221 (1.5), BTEC 222 (1.5), BTEC 292 (1), BTEC 299 (1)



College and Career Transitions Initiative

Funded by the U. S. Department of Education (V051B020001)

<b>Required Courses</b>
<b>Recommended Elective Courses (H.S. Elect. sometimes occur on varying days (i.e. A/B schedule))</b>
<b>Career and Technical Education Courses</b>
<b>Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses, 2+2+2) (+=H.S. to Com. College (*=Com. College to 4-Yr Institution) (•=Opportunity to test out)</b>
<b>Mandatory Assessments, Advising, and Additional Preparation</b>