

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.

Signature of Secondary Administrator:	Date:
Signature of Postsecondary Administrator:	Date:

		GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	Required - Recommended Elective - Other Elective and Career & Technical Education Courses	
ADULT LEARNER ENTRY POINTS	SECONDARY	9	English 9	Geometry	Biology		Introduction to Biotechnology	P.E./Health
		10	English 10	Algebra II	Chemistry for Biotechnology	World History	Health Care Essentials	
		11	English 11	Pre-Calculus	Physics	U.S. History	Biotechnology I	World Languages
		12	English 12	Calculus	Other Science	American Government Economics	Biotechnology Applications	Internship and Research Design
Successful Completion of MiraCosta College Math and English Competency Exams								

		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	
ADULT LEARNER ENTRY POINTS	POSTSECONDARY	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)



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Required Courses
Recommended Elective Courses (H.S. Elect. sometimes occur on varying days (i.e. A/B schedule)
Career and Technical Education Courses
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)
Mandatory Assessments, Advising, and Additional Preparation