

Industry Sector: Health Science & Medical Terminology

PATHWAY: Biotechnology



California Program of Study - Santa Clara Unified School District @ Santa Clara High School

Level	Grade	ELA	Math	Social Studies	Science	CTE Courses	Other Required Courses or Recommended Electives		Sample occupations relating to this pathway (inc. SOC code)	
MIDDLE SCHOOL	7	English 7	Pre-Algebra	History 7	Science 7		Elective	PE	Occupations requiring a high school diploma: QA Analyst w/OJT 19-4099.01	
	8	English 8	Algebra 1	History 8	Science 8		Elective	PE		
SECONDARY	9	*English 9 (10.0)	*Geometry (10.0) or H Geom Yr. 1	Ethnic Studies (5)	*Marine Bio or Bio (10.0) Yr. 1		*World Language (10.0) Yr. 1 , <i>Health</i> (5)	*PE (10.0) Yr. 1	Occupations requiring some post-secondary: QA Analyst w/OJT 19-4099.01 Occupations requiring a 2 year degree: Biological Lab Tech 19-4021.00 Ag & Food Sciences Tech 19-4011.01 Occupations requiring a BA/BS degree: Biological Scientist 19-1029.00 Biofuels Product Dev. Mgr. 11-9041.01 Regulatory Affairs Specialist 13-1041.07	
	10	*English 10 (10.0)	*Algebra 2 or Alg 2 H (10.0) Yr. 2	*World History or AP Euro (10.0) Yr. 1	*Chemistry or H Chem or H Physio or *Physics (10.0) Yr. 2	Biotechnology 1-2 (10.0)	World Language (10.0) Yr. 2	*PE (10.0) Yr. 2		
	11	*English 11 (10.0)	Trig/PreCalc or Trig/PreCalc H or Statistics or AP Stats	*US History (10.0) or AP US Yr. 2	H Physio or AP Bio or AP Chem or AP Physics 1 (10.0)	Biotechnology 1-2 or Biotechnology 3-4 (10.0)	*VAPA Elective & Practical Arts (15.0)	*PE/Health (5)		
	12	*English 12 (10.0)	Cal AB or AP Calc AB or AP Calc BC or Statistics or AP Stats	*Civics (5.0) Econ (5.0) or AP Civics or AP Econ Yr. 3	H Physio or AP Bio or AP Chem or AP Physics 1 (10.0) <i>*10 units in Life and Physical Science</i>	Biotechnology 3-4 (10.0)	*Other Electives (70.0) any amount taken above the required amount			
POSTSECONDARY	Advance BioTech is a dual enrollment class that earned college credit								Industry recognized certifications, licenses, credentials or apprenticeships related to this pathway. OSHA Lab Safety Suggested Majors: Fermentation/Microbial Biotech Plant Biotech Animal Biotech Bioinformatics	
	13	AREA 4 - LANGUAGE & RATIONALITY AA/AS Degree (3 units from English Composition, 3 units from Analytical Thinking & Oral Communication and one course from Math Proficiency)		AREA 2 - SOCIAL & BEHAVIORAL SCIENCES AA/AS Degree (3 Units)	AREA 1 - NATURAL SCIENCES AA Degree (3 Units) AS Degree (6 Units)	AREA 6 - INTERCULTURAL/INTERNATIONAL STUDIES AA/AS Degree (3 units of any course offerings)	AREA 3 - FINE ARTS & HUMANITIES AA Degree (3 units from Fine Arts Theory and 1-4 units from Humanities & Participatory Arts) AS Degree (complete 3 units from either Fine Arts Theory or Humanities & Participatory Arts)	AREA 5 - PHYSICAL EDUCATION/ WELLNESS AA/AS Degree (complete 1 course in Physical Education, Wellness or Present DD214 {Military Service Record})		
	14					AREA 7 - INFORMATION COMPETENCY AA/AS Degree (complete one course offering)				
	15	UC/CSU/Private University IGETC transfer					<i>*An associates degree requires a minimum of 60 units. After completing all Major and GE requirements some students may need additional elective units to fulfill this requirement.</i>			
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Middle School: Buchser MS, Cabrillo MS, Don Callejon School, and Peterson MS

High School: Santa Clara High School

Community College: Ohlone College

College/University: UC Davis

Required Courses (*Required for HS graduation)

Career Technical Education Courses

***Other Required Courses and Recommended Electives**

Dual/Concurrent Enrollment-Articulated Courses