

## Bullard High School Biomedicine Pathway Program of Study

Year	Class	Linked Learning Courses	Suggested Courses (3-4 Courses)	Work-Based Learning Activities	Certifications	Business Partners
<b>Summer</b>	Summer Bridge with CPR/First Aid Training					
<b>Year 1</b>	<b>FRESHMEN</b>	<ul style="list-style-type: none"> <li>English 1 (b)</li> <li>Biology (d)</li> <li>PLTW Principles of Biomedical Science (d)</li> </ul>	Math (b) PE Foreign Language (e)	<ul style="list-style-type: none"> <li>*MSCC Health Fair 2x year</li> <li>*Mentor Dinners/Guest Speakers – Quarter 2 &amp; 4</li> <li>*Career Skills Challenge</li> <li>*HOSA</li> <li>*Interviews w/ Health Care Professionals</li> </ul>		<ul style="list-style-type: none"> <li>*UCSF-Fresno – Dr. Kinman, Dr. Yang, Dr. Ramirez, Dr. Brar</li> <li>*Kaiser Permanente – Dr. Carpenter, Dr. Zhornitskiy</li> <li>*Fresno City College</li> <li>*Central Valley Black Nurses Association – Dr. Carolyn Drake</li> <li>*UC Merced San Joaquin Prime Association – Kasan Jones</li> <li>*Alicia Mascarenas – Diabetic educator</li> <li>*California Transplant Donor Network – Marcella Corona</li> <li>*Fresno County Department of Public Health</li> </ul>
<b>Summer</b>	Sports Science Institute – FUSD/CSU Fresno Collaboration					
<b>Year 2</b>	<b>SOPHOMORES</b>	<ul style="list-style-type: none"> <li>English 2 (b)</li> <li>Chemistry (d)</li> <li>PE</li> </ul>	Math (b) Foreign Language (e) Modern World History (c)	<ul style="list-style-type: none"> <li>*MSCC Health Fair 2x year</li> <li>*Mentor Dinners/Guest Speakers – Quarter 2 &amp; 4</li> <li>*Career Skills Challenge</li> <li>*HOSA</li> <li>*Interviews w/ Health Care Professionals</li> </ul>		<ul style="list-style-type: none"> <li>*UCSF-Fresno – Dr. Kinman, Dr. Yang, Dr. Ramirez, Dr. Brar</li> <li>*Kaiser Permanente – Dr. Carpenter, Dr. Zhornitskiy</li> <li>*Fresno City College</li> <li>*Central Valley Black Nurses Association – Dr. Carolyn Drake</li> <li>*Fresno County Department of Public Health</li> <li>*UC Merced San Joaquin Prime Association – Kasan Jones</li> </ul>
<b>Summer</b>	Sports Science Institute – FUSD/CSU Fresno Collaboration					
<b>Year 3</b>	<b>JUNIORS</b>	<p><b>Medical Research</b></p> <ul style="list-style-type: none"> <li>English 3 (b)</li> <li>AP Chemistry/Physiology (d)</li> <li>PLTW Human Body Systems (d)</li> </ul> <p><b>Medical Applications</b></p> <ul style="list-style-type: none"> <li>English 3 (b)</li> <li>AP Chemistry/Physiology (d)</li> <li>Medical Terminology* (DE with FCC)</li> </ul> <p><b>CART</b></p> <ul style="list-style-type: none"> <li>Biomedicine</li> <li>Biotechnology</li> <li>Environmental Science</li> <li>Forensic Research</li> </ul>	Math (b) Foreign Language (e) PE (if needed)	<ul style="list-style-type: none"> <li>*MSCC Health Fair 2x year</li> <li>*Mentor Dinners/Guest Speakers – Quarter 1 &amp; 3</li> <li>*Career Skills Challenge</li> <li>*HOSA</li> <li>*Interviews w/ Health Care Professionals</li> </ul>		<ul style="list-style-type: none"> <li>*UCSF-Fresno – Dr. Kinman, Dr. Yang, Dr. Ramirez, Dr. Brar</li> <li>*Kaiser Permanente – Dr. Carpenter, Dr. Zhornitskiy</li> <li>*Fresno City College</li> <li>*Central Valley Black Nurses Association – Dr. Carolyn Drake</li> <li>*UC Merced San Joaquin Prime Association – Kasan Jones</li> <li>*Fresno County Department of Public Health</li> <li>*Central California Blood Center – Priscilla Cullers</li> </ul>
<b>Summer</b>	UCSF Fresno Summer Research Program					

PLTW=Project Lead The Way	ROP= Regional Occupation Program	DE= Dual Enrollment	FCC= Fresno City College	RC= Reedley College
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DISCLAIMER: Not all course offerings, work-based learning & certification opportunities are available at all sites and during all semesters. Check with your school for specific offerings for the upcoming semester. Course offerings, work-based learning & certification opportunities are subject to change.

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<b>Year 4</b>	<b>SENIORS</b>	<u><b>Medical Research</b></u> <ul style="list-style-type: none"> <li>• ERWC (b)</li> <li>• AP Biology/Environmental Health (d)</li> <li>• Pharmacy Technician Course*/ ROP Sports Medicine*</li> </ul>	Advanced Math (b)/Medical Math* (DE with FCC) Foreign Language (e)	*MSCC Health Fair 2x year *Mentor Dinners/Guest Speakers – Quarter 1 & 3 *Career Skills Challenge *HOSA *Interviews w/ Health Care Professionals		*UCSF-Fresno – Dr. Kinman, Dr. Yang, Dr. Ramirez, Dr. Brar *Kaiser Permanente – Dr. Carpenter, Dr. Zhornitskiy *Fresno County Department of Public Health *Fresno City College *Central Valley Black Nurses Association – Dr. Carolyn Drake *UC Merced San Joaquin Prime Association – Kasan Jones *Central California Blood Center – Priscilla Cullers
		<u><b>Medical Applications</b></u> <ul style="list-style-type: none"> <li>• ERWC (b)</li> <li>• AP Biology/Environmental Health (d)</li> <li>• PLTW Medical Interventions (d)*</li> </ul>				
		<u><b>CART:</b></u> Biomedicine Biotechnology Environmental Science Forensic Research				
<b>College/Career Outcomes</b>	<b>Entry Level Careers (Licenses/Certificates)</b>		<b>Technical Level Careers (A.A./A.S. Degree or Certificate)</b>		<b>Professional Level Careers (B.A./B.S. and Above)</b>	
	Physical Therapy Assistant Respiratory Care Practitioner Optometric Assistant Medical Assistant Medical Office Secretary Home Health Aide Laboratory Assistant Pharmacy Aide Dental Assistant Medical Equipment Preparers Personal and Home Care Aide Psychiatric Aides Biotechnology Assistant Geriatric Assistant		Certified Nursing Assistant - CNA Pharmacy Technician Registered Nurses (2 yr) Paramedic Operating Room Technician Medical Records Technician Emergency Medical Technician - EMT Licensed Vocational Nurse - LVN Radiology Technologist Dental Lab Technician Respiratory Therapists Cardiovascular Technologists Diagnostic Medical Sonographers Biomedical Technician Environmental Services Technician		Surgeons Speech-Language Pathologists Registered Nurses (4 yr) Pharmacists Physicians Orthodontists Nurse Practitioner Anesthesiologists Dietitians and Nutritionists Clinical Trials Researcher Biomedical Chemist Geneticist Materials Management Supervisor Medical/Public Health Social Workers	

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