School: Long Beach Polytechnic High School

Pathway Name: NOVA
Industry Sector: Information Technology/Energy, Environment, and Utilities/Transportation

Mission Statement:
The NOVA mission is to empower students with a foundational understanding of sustainability and energy production in today's rapidly changing world. This pathway is designed to spark curiosity and provide practical skills by blending core concepts of energy generation, conversion, and storage with hands-on learning. Through exploration of sustainable systems and emerging smart technologies, students will develop the ability to analyze, evaluate, and create energy-related solutions. By the end of their time in NOVA, learners will be equipped not only with essential knowledge but also with the confidence to engage in and contribute to sustainable energy innovation.

Vision Statement
The NOVA vision is to become a pathway for students to enter the world of sustainable energy with curiosity, confidence, and purpose. We strive to be the first step in guiding learners toward deeper exploration of clean technologies, innovative systems, and responsible practices that shape the future. By equipping students with foundational skills and inspiring hands-on discovery, this pathway aims to open doors to advanced studies, careers, and leadership opportunities in sustainability and energy innovation.

2027-2028 Course of Study
Graduating Class of 2031

<table>
<tr><th colspan="2"></th><th>HS Grad Req.</th><th>9th grade</th><th>10th grade</th><th>11th grade</th><th>12th grade</th><th>UC/ CSU A-G Req.</th></tr>
<tr><td rowspan="2">Technical Core</td><td rowspan="2">Required Technical Core

3-course thematic sequence: CTE, PLTW, or Technical</td><td rowspan="2">3</td><td rowspan="2">The Green Future of Energy and Transportation 6125</td><td></td><td>Auto Strand Intermediate Course</td><td>Capstone Auto Strand</td><td rowspan="2">‘g’ 1</td></tr>
<tr><td></td><td>Environmental Intermediate Course</td><td>Capstone Environmental Course</td></tr>
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Academic Core	History/Social Science	3		**AP World 2318 OR Modern World History 2271**	**AP United States History 2236 Or Ethnic Studies: Our American Histories 2263**	**One Semester Each: US Government 2241 OR AP US Government 2234 AND Personal Finance 2311**	'a' 2
	English	4	**Accelerated English 1-2 1403 OR English 1-2 1401**	**AP Seminar English 10 1457 OR English 3-4 1408**	**AP English Language 1458 OR English 5-6 1410**	**AP English Literature 1449 OR Diverse Voices 1470**	'b' 4
	Math	3	**Algebra I 2986 OR Accelerated Geometry 2971**	**Geometry 2970 OR Accelerated Algebra 2 2964**	**Algebra 2 2963 OR Pre-Cal 3057**	**Optional: Pre Calculus 3057, AP Precalc, Functions Statistics & Stats 3069, Finite Math 3150, AP Statistics 3157**	'c' 3
	Lab Science	2	**Biology: The Living Earth 3865**	**Chemistry in the Earth System 3876**	**Optional**	**Optional**	'd' 2
	Language Other Than English (LOTE)	1 or VAPA	**Spanish 1-2 1831, French 1-2, Japanese 1-2, Chinese 1-2 OR Spanish for Spanish Speakers 1-2**	**Spanish 3-4 1832, French 3-4 1803, Japanese 3-4 1761, Chinese 3-4, OR Spanish for Spanish Speakers 3-4**			'e' 2
	Visual and Performing Arts (VAPA)	1 or LOTE	**Visual Arts Offerings: Art 1-2: Foundations 1082** **Performing Arts Offerings: Instrumental Music, Vocal Music, OR Theatre Arts**				'f' 1
	Physical Education	2	**PE 9 3704 Sport/ROTC/Dance**	**PE 10 3707 Sport/ROTC/Dance**			
Global Elective Courses	Additional courses that provide pathway enrichment	3	Poly Global Electives List **At Poly, AP courses and Visual and Performing Arts courses are available to students from all pathways, subject to space availability. Please See Counselor for Complete List.**				

Updated 10/26

Work-Based Learning	Required work-based learning opportunities		Aquarium Conservation in Action Port 101 and Career Fair	Port of Long Beach Harbor Tour & Guest Speakers Southern CA Edison Plant Tour & Mobile Lab	Long Beach Container Terminal Tour Resume Workshop / Mock Interviews Rio Hondo - Automotive Technology Program Tour	College Tour (Trade) EcoVoice: Voter Education & Environmental Advocacy	
Integrated Curriculum	Multidisciplinary Integrated Curriculum		Passive House Project	Energy of the Future	In Development	In Development: Green Vote: Environmental Civic Awareness Campaign	

*** Please note many competitive universities, including the UC system, expect more classes than the minimum a-g requirements. For example, a fourth year of math and a third year of Lab Science and World Language.**