

Skyline Green Program of Study

Industry Sector:

- [Energy, Environment, and Utilities](#)

Industry Partners: Waste Management, ETIC Engineering, Bay Area Air Quality Management District (BAAQMD), Laney College, Merritt College, Sun Power, Y-PLAN, SunPower, Lawrence Hall of Science; PG&E, AMRYIS, East Bay College Fund; Aspire Education Project: GLOBE-CAP; We Share Solar; EBMUD

Pathway Vision Here is a link to our Linked Learning Certification Final Report	What is the instructional vision that will drive the pathway? Through the use of Science, Technology, Engineering & Math (STEM), cross-curricular and project-based learning programs throughout a student's four years in the Green Energy Academy at Skyline High School, students will reach competency levels in: <i>communication, critical thinking, creativity and collaboration</i> . At the completion of high school, <u>every</u> academy student will be prepared to complete a senior defense. The senior defense communicates what they have learned/achieved in the 4 competence levels. The mission of the Green Energy Academy is to provide students with an opportunity to succeed in green energy careers and post-secondary education in the area of environmental technology. The Green Academy provides students with a comprehensive educational experience consisting of engaging and rigorous academics and hands-on learning. Students graduating from the academy are ready to pursue occupational training programs at the community college, post-secondary education, or directly enter the workforce in an entry-level technical training position with career potential.				
Meeting Time: [Insert Meeting Time]	9th Grade Program	10th Grade Program	11th Grade Program	12th Grade Program	Graduate Pathway Outcomes
Academic Core <i>English</i> <i>Social Studies</i> <i>Science</i> (Cohort Integrity for these courses)	English 9 (18-19 syllabus) UCCI English 1 Ethnic Studies 9 Biological Connection to Energy and the Environment 9 (Syllabus) (serves as core and CTE course)	English 10 English 10 UCCI English 1 World History 10 Environmental Chemistry 10	English 3 AP Language and Composition UCCI English 2 U.S. History 11 Physics of Energy Science (serves as core and CTE course)	English 4 AP English Literature and Composition Senior Seminar UCCI English 2 American Government and Economics	Certifications:
Math (possible additions to the 2020-21 Program of Study)	UCCI Math 1 Engineering Geometry with Physics - Math	UCCI Math 1 Engineering Geometry with Physics - Math	UCCI Math 2 Functional Design Through Algebra	UCCI Math 2 Functional Design Through Algebra	
Technical Core/Theme (CTE Sequence)	Biological Connection to Energy and the Environment Here is the course Description	Sustainability	Physics of Energy Science (serves as core and CTE course) Here is the course Description	Sustainable Systems Here is the course description for Sustainable Systems.	

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					Certification in Urban Agroecology
Dual Enrollment [Link to Dual Enrollment]		Merritt CC: ENVMT 5 Oakland Food Culture (Fall 2019) Merritt CC: ENVMT 35 Introduction to Urban Agroecology (Spring 2020)	Merritt CC: ENVMT 5 Oakland Food Culture (Fall 2019) Merritt CC: ENVMT 35 Introduction to Urban Agroecology (Spring 2020)	Merritt CC: ENVMT 5 Oakland Food Culture (Fall 2019) Merritt CC: ENVMT 35 Introduction to Urban Agroecology (Spring 2020)	
Integrated Projects Here is a summary of our integrated major projects and their ties to WBL.	9th Grade My Skyline Project	Y-Plan 10th grade Chemistry Weapons Project 10th Grade Integrated Project	Energy Efficient Building Design and Construction Rubric "Green Town" Project	Senior Capstone Project Overview and Deadlines Rubrics	
Other Electives	(Proposed Elective)	Study Hall/Study Skills AP Biology	Apprenticeship Multicraft course Here is the course description for Apprenticeship Multicraft course AP Physics C Mechanics AP Biology AP Chemistry	AP Environmental Science AP Physics C Mechanics AP Biology AP Chemistry Apprenticeship Multicraft course Graduate Capstone Seminar Class	
Other					
Work Based Learning [WBL Continuum]	Career Exploration Visits - Ocean Film Festival, SF Guest Speakers LIMPETS (Sand Crab Expt.)	[Link to WBL Document] Career Exploration Visits Y-Plan Project Earth Team Internship ECCO Workshops Point Bonita 10th Grade Retreat (Sand Crab Expt.) Industry Partners ECCO Workshops Guest Speakers	Annual Career EXPO Career Exploration Visits ECCO Summer Internship (for rising 12th graders) Earth Team Internship OakTown Proud Student Ambassador Internship (City of Oakland) Industry Partners ECCO Workshops	[Link to WBL Document] Career Exploration Visits Solar Suitcase Project Earth Team Internship ECCO Workshops Yosemite Senior Retreat OakTown Proud Student Ambassador Internship (City of Oakland) Industry Partners	

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			Guest Speakers	Guest Speakers	
Student Leadership	Student-led Pathway Climate & Culture Assembly Pilot Green Student Leadership program	Student-led Pathway Climate & Culture Assembly Students' Y-Plan Urban Planning Presentations at City Hall Pilot Green Student Leadership program	Student-led Pathway Climate & Culture Assembly Pilot Green Student Leadership program	Student-led Pathway Climate & Culture Assembly Pilot Green Student Leadership program	
Summer Bridge		Summer Solar Academy (for rising 11th graders)	[Link to Summer Bridge]		
College Exposure	UC, Berkeley Tour	UC, San Francisco Tour	UC, Davis Tour	Laney College Visit Dominican University Visit	
Study Tours	Exploratorium Cal Adventures LIMPETS (Sand Crab Expt.)	Career Exploration Visits to JBEI or Sunpower Overnight Retreat to Point Bonita YMCA Y-PLAN Site Exploration Field Trip	Career Exploration Visits to Waste Management, ETIC Engineering and BAAQMD (CTE) Refrigeration and HVAC Study Tour to Laney College (CTE) Study Tour to the Tech Museum (Physics) Great America's Physics Day (Physics) Study Tour to the Exploratorium (Physics) Study Tour to Monterey Bay Aquarium (Physics/CTE)	Career Exploration Visits to EBMUD Black Diamond Mines	
Advisory Structure					
Personalized Supports	Skyline Pathways Student Support Protocol	Skyline Pathways Student Support Protocol	Skyline Pathways Student Support Protocol	Skyline Pathways Student Support Protocol	

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	Student Intervention	Student Intervention	Student Intervention Capstone Project Retreat	One-On-One Support for Senior Capstone Project	
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Possible additions to the program of study for 2020-21:

Engineering Geometry with Physics - Math	9, 10	Engineering and Design / Engineering and Design
Functional Design Through Algebra	9, 10, 11, 12	Engineering and Architecture / Engineering Design

Possible additions to the program of study for ECCCO Summer 2020:

ENVMT 3 Social Issues in Agriculture 9, 10, & 11 (Summer 2020)
LANHT 28A Permaculture Design I 9, 10, & 11 (Summer 2020)