

Skyline Green Program of Study

Industry Sector:

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

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

<p>Pathway Vision</p> <p>Here is a link to our Linked Learning Certification Final Report</p>	<p>What is the instructional vision that will drive the pathway?</p> <p>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</i> and <i>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.</p> <p>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.</p>				
<p>Meeting Time: [Insert Meeting Time]</p>	<p>9th Grade Program</p>	<p>10th Grade Program</p>	<p>11th Grade Program</p>	<p>12th Grade Program</p>	<p>Graduate Pathway Outcomes</p>
<p>Academic Core</p> <p><i>English</i></p> <p><i>Social Studies</i></p> <p><i>Science</i></p> <p>(Cohort Integrity for these courses)</p>	<p>English 9 (18-19 syllabus)</p> <p>UCCI English 1</p> <p>Ethnic Studies 9</p> <p>Biological Connection to Energy and the Environment 9 (syllabus)</p>	<p>English 10</p> <p>English 10</p> <p>UCCI English 1</p> <p>World History 10</p> <p>Environmental Chemistry 10</p>	<p>English 3</p> <p>AP Language and Composition</p> <p>UCCI English 2</p> <p>U.S. History 11</p> <p>Physics of Energy Science (serves as core and CTE course)</p>	<p>English 4</p> <p>AP English Literature and Composition</p> <p>Senior Seminar</p> <p>UCCI English 2</p>	<p>Link to Pathway Outcomes</p> <p>Certifications:</p>
<p>Math (possible additions to the 2019-20 Program of Study)</p>	<p>UCCI Math 1</p> <p>Engineering Geometry with Physics - Math</p>	<p>UCCI Math 1</p> <p>Engineering Geometry with Physics - Math</p>	<p>UCCI Math 2</p> <p>Functional Design Through Algebra</p>	<p>UCCI Math 2</p> <p>Functional Design Through Algebra</p>	
<p>Technical Core/Theme (CTE Sequence)</p>	<p>Biological Connection to Energy and the Environment</p> <p>Here is the course Description</p>	<p>Intro to Sustainability</p>	<p>Physics of Energy Science (serves as core and CTE course)</p> <p>Here is the course Description</p>	<p>Sustainable Systems</p> <p>Here is the course description for Sustainable Systems.</p>	

Skyline Green Program of Study

Industry Sector:

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

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

				Here is the course description for Apprenticeship Multicraft course
Dual Enrollment [Link to Dual Enrollment]			Laney CC: ENG 100 Earth Systems: Sustainability, Ecology and Environmental Justice for Technicians and Engineers (Fall 2016) Merritt CC: ENVMT 5 Oakland Food Culture (Spring 2017)	Laney CC: ENG 100 Earth Systems: Sustainability, Ecology and Environmental Justice for Technicians and Engineers (Fall 2016) Merritt CC: ENVMT 5 Oakland Food Culture (Spring 2017)
Integrated Projects Here is a summary of our integrated major projects and their ties to WBL.		Y-Plan 10th grade Chemistry Weapons Project	Energy Efficient Building Design and Construction Rubric	Senior Capstone Project
Other Electives	(Proposed Elective)	Study Hall/Study Skills		AP Environmental Science AP Physics C Mechanics (Proposed Elective) Graduate Capstone Seminar Class
Other				
Work Based Learning [WBL Continuum]		[Link to WBL Document] Career Exploration Visits Y-Plan Project ECCO Workshops	Annual Career EXPO ECCO Summer Internship (for rising 12th graders) Industry Partners ECCO Workshop	[Link to WBL Document] Solar Suitcase Project ECCO Workshops
Student Leadership	Student-led Pathway Climate & Culture Assembly	Student-led Pathway Climate & Culture Assembly Students' Y-Plan Urban Planning Presentations at City Hall	Student-led Pathway Climate & Culture Assembly	Student-led Pathway Climate & Culture Assembly

Skyline Green Program of Study

Industry Sector:

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

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

Summer Bridge		<u>Summer Solar Academy</u> (for rising 11th graders)	[Link to Summer Bridge]	
College Exposure		UC; San Francisco Tour	UC, Davis Tour	Laney College Tour
Study Tours		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 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	<u>Skyline Pathways Student Support Protocol</u>	<u>Skyline Pathways Student Support Protocol</u>	<u>Skyline Pathways Student Support Protocol</u>	<u>Skyline Pathways Student Support Protocol</u>

Possible additions to the program of study for 2019-20:

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**