

Lighthouse Program of Study* - Lighthouse Design Pathway

*Revisions (new courses or revised courses) are highlighted in red

Industry Sectors: Product Design & Innovation Pathway (Manufacturing and Product Development)

Industry Partners: Current partners include the San Francisco Exploratorium, Pro Arts Gallery, Maker Faire Bay Area, Pioneers in Engineering, Sixteen Screenprinting Boutique, TechHive, Rising Sun Energy Center, and Hack the Hood.

Pathway Vision	<p>All students at Lighthouse Community Charter High School participate in our Lighthouse Design Pathway. In this pathway, students will develop skills and knowledge in three key domains: Design Process, Product Development, and Entrepreneurship.</p> <p>Students will:</p> <ul style="list-style-type: none"> • create real products using the design process • work as part of design teams to develop products that meet market demands and/or a community need • develop entrepreneurial skills and knowledge to market products • develop portfolios to showcase their work • collaborate with industry professional and real world clients. 				
Pathway COP Meeting Time:	9th Grade Program <i>Wednesday afternoons; time varies</i>	10th Grade Program <i>Wednesday afternoons; time varies</i>	11th Grade Program <i>Wednesday afternoons; time varies</i>	12th Grade Program <i>Wednesday afternoons; time varies</i>	Graduate Pathway Outcomes (Student Learning Outcomes)
Academic Core Student Cohort Integrity	English 9 Physics	Humanities 10 (English 10 & World History II) Biology	Humanities 11 (English 11 & US History I) Chemistry	English 12 Ethnic Studies Honors Physics	CTE Standards for Product Design and Innovation: Students will: <ul style="list-style-type: none"> • create real products using the design process • work as part of design teams to develop products that meet market demands and/or a community need • develop entrepreneurial skills and knowledge to market products • develop portfolios to showcase their work • collaborate with industry professional and real world
Math	Integrated Math I	Integrated Math 2	Algebra 2	Calculus	
Technical Core/Theme (CTE Sequence)	2-Design	3-D Design Advanced Manufacturing* Graphic Design*	Advanced Manufacturing* Graphic Design* *Note: Due to master schedule shift, the Adv Many and Graphic Design will not be full re-designed course until 19-20.	Advanced Manufacturing* Graphic Design*	
Dual Enrollment	We are in the process of discussing Dual Enrollment possibilities with Laney College and Berkeley City College.				

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Integrated Projects/ Common Performance Assessments	2 Thematic Integrated Units	2 Thematic Integrated Units	Soap Production & Marketing Project (Chemistry) 2 Thematic Integrated Units	Generator Project - designing, building windmills (Physics) King of the Hill Project - designing, building and racing Mousetrap cars (Physics) Solar Prototype Project - designing, building and marketing solar-powered electronic devices (Physics)	clients. Making, Art, and Design Learning Targets (7th & 8th Feeding Into Pathway)
Defenses or Capstones	9th Grade End of Year Reflection Design Portfolios	10th Grade Passage aligned to Pathway Design Portfolios	11th Grade Internship Project Design Portfolios	12th Grade Passage aligned with Graduate Profile and Pathway	
Other Courses / Electives	Fitness Ethnic Studies	Spanish (1-3, AP) Fitness	Spanish (1-3, AP) Yoga Career and College Prep	Spanish (1-3, AP) Yoga Senior Seminar	
Other Student Experiences (post-session, intersession, rituals, class trips, assemblies)	9th Grade Retreat-Summer Bridge and Quarterly Intercession (during our week long breaks for students failing classes)	Expedition related fieldwork Intercession (during our week long breaks for students failing classes)	Expedition related fieldwork Intercession (during our week long breaks for students failing classes)	Challenge Day Expedition related fieldwork Intercession (during our week long breaks for students failing classes)	
Work Based Learning	<ul style="list-style-type: none"> Exposure to guest speakers and career 	<ul style="list-style-type: none"> Sequence of guest speakers and career panels 	<ul style="list-style-type: none"> Career Interest Inventory 	<ul style="list-style-type: none"> Support with major selection (connected to career interests) 	

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	<p>panels during community meeting</p> <ul style="list-style-type: none"> ● Internship for a day (with 11th grade students) ● Career Fair 	<ul style="list-style-type: none"> ● Small group mentoring on design portfolios with industry professionals ● Career Exploration: informational interview w/ workplace role model ● Job shadow/workplace visits in small groups ● Career fair 	<ul style="list-style-type: none"> ● Career/Major research and rationale ● Internship Program ● Industry mentors in Pathway concentration classes 	<ul style="list-style-type: none"> ● Articulation of major/career interests in personal statement(s) for college and scholarships ● Some paid internships (Genesys Works, SF Exploratorium) ● Mentorship program with industry professionals: 3-4 meetings per year to help students develop college/career plans and expand network of possibility after graduation→ shared as part of 12th capstone passage presentation 	
Student Leadership	<p>Reading buddy program with elementary school students</p> <p>Community service program in crews (quarterly)</p>	<p>Community service program in crews (quarterly)</p>	<p>Internship Shadow Program (11th graders bring a 10th grader to their internship for a day)</p> <p>Community service program in crews (quarterly)</p>	<p>12th grade mentor program (with freshman)</p> <p>Community service program in crews (quarterly)</p>	
Summer Learning (Summer Bridge, summer learning, credit recovery)	<p>Laney College CTE Summer Institute</p> <p>Hack the Hood</p> <p>Girls Who Code</p>	<p>Laney College CTE Summer Institute</p> <p>Hack the Hood</p> <p>Girls Who Code</p>	<p>Laney College CTE Summer Institute</p> <p>Hack the Hood</p> <p>Girls Who Code</p>		

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			Global Glimpse (10-15 students) Genesys Works (5-10 students)		
College Exposure	At least one visit to a local college (Last year students went to College of Alameda and University of San Francisco)	At least one visit to a local college (Last year students went to Santa Clara and San Jose State) YWCA Shadow Day at UC Berkeley	At least one visit to a local college (Last year students went to SF State and UC Davis) Trip to WACAC College Fair at CSUEB	At least one visit to a local college (Last year students went to College of Alameda, San Jose State and UC Santa Cruz)	
Study Tour Destinations	Varies according to schedule, current partnerships and student interest Pathway Aligned Study Tours	Varies according to schedule, current partnerships and student interest Pathway Aligned Study Tours	Varies according to schedule, current partnerships and student interest Pathway Aligned Study Tours	Varies according to schedule, current partnerships and student interest Pathway Aligned Study Tours	
Advisory Structure	M, Tu, Th, F - 40 min per day + 30 min on Wed	M, Tu, Th, F - 40 min per day + 30 min on Wed	M, Tu, Th, F - 40 min per day + 30 min on Wed	M, Tu, Th, F - 40 min per day + 30 min on Wed	
Personalized Supports	Resource Specialists (1.5 FTE) Reading Interventionist (1 FTE) 2 Therapists (.5 FTE each) Guidance Counselor (1 FTE) DCAC College Advisor Fellow (1 FTE)	Resource Specialists (1.5 FTE) Reading Interventionist (1 FTE) 2 Therapists (.5 FTE each) Guidance Counselor (1 FTE) DCAC College Advisor Fellow (1 FTE)	Resource Specialists (1.5 FTE) Reading Interventionist (1 FTE) 2 Therapists (.5 FTE each) Guidance Counselor (1 FTE) DCAC College Advisor Fellow (1 FTE)	Resource Specialists (1.5 FTE) Reading Interventionist (1 FTE) 2 Therapists (.5 FTE each) Guidance Counselor (1 FTE) DCAC College Advisor Fellow (1 FTE)	

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Use of expanded learning time (before or after school)	Writing Center Teacher Office Hours	Writing Center Teacher Office Hours	Writing Center Teacher Office Hours	Writing Center Teacher Office Hours	
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