



**OAKLAND UNIFIED
SCHOOL DISTRICT**

Community Schools, Thriving Students

Aspire Lionel Wilson Prep Design for Social Change: An Engineering Pathway

MEASURE N PROBATIONARY SITE PROGRESS UPDATE



Presented by Aspire Lionel Wilson Prep

Presented to OUSD and the Measure N Committee

11/10/2021

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Pathway Information

Name of Pathway: Design for Social Change: Engineering Pathway

Industry Sector: Engineering and Architecture

Vision

With the support of the community, the students of Lionel Wilson Prep will develop the skills and mindsets necessary to design an equitable reality for themselves, their families, and their communities.

Mission

At Lionel Wilson Prep, we:

- Provide our students with rigorous learning experiences, grounded in Engineering and Social Justice.
- Operate with Joy.
- Engage our students through work based learning opportunities to prepare them for college and career.
- Create an inclusive school community where all students, staff, and families are valued, celebrated, and safe.
- Build deep relationships with students to cultivate their advocacy and voice.
- Partner with families in all aspects of our students' development.
- Develop and continuously refine equitable systems of support and intervention.
- Interrogate the impacts of power, privilege, and oppression within our community to dismantle white supremacist culture.

Number of Students in Pathway: 291

Updates



Program of Study

- Ninth grade: BUILD Engineering, English 9, Biology, Integrated Math 1, Ethnic Studies, and Advisory
- Tenth Grade: PLTW Introduction to Engineering Design, English 10, Chemistry, Integrated Math 2, U.S. History, and Advisory
- Eleventh Grade: Intermediate Engineering Design for Social Change, English 11, Integrated Math 3, World History, and Advisory
- Twelfth Grade: Engineering Design Capstone, English 12, Statistics, Government/Economics, College & Career Readiness, and Advisory



Structural Shifts in Support of Pathways

- Redesigned CTE sequence so that all CTE courses are focused on Engineering Design.
- Added new Dean from Maker Ed with content expertise.
- Regular meetings with pathway development team.
- Redesigned professional development time to allow for grade level collaboration and interdisciplinary planning.
- Whole staff PD on Measure N and Linked Learning; 1:1 and team coaching on implementing pathway theme.
- Weekly collaboration with pathway coach to support implementation.
- Actively hiring Pathway Coordinator.
- Added Dual Enrollment courses (Counseling 57 & Counseling 24) at 10th and 12th grade.
- Added schoolwide college visit day (post-secondary engineering and design programs).

Updates

CTE & Rigorous Academics Integration

- Re-design of CTE course sequence to focus on Engineering Design and Autodesk CAD programming.
- Adjusted partnership with BUILD to embed Engineering Design CTE standards.
- Participated in PBL Leadership Academy: PBL Training for team leads to support interdisciplinary project development in all grade levels.
- Collaboration with Advisory board to identify industry partners to support with interdisciplinary projects.
- Developed Senior Engineering Design Capstone.

Updates



Deepening Work-Based Learning experiences across Pathways

- Integrated WBL into advisory program at each grade level.
- Implemented professional Speaker Series.
- Updated senior portfolio
- Collaboration with Advisory board to identify industry partners for mock interviews, informational interviews, project collaboration, and student project feedback.
- Partnership with Youth Uprising to connect students to internships in semester 2
- Partnership with Frog Design Firm to sponsor 9th grade BUILD Engineering and provide internships

Updates

What are some examples of the implementation of your plan?

- Collaborated with BUILD to facilitate formal pathway orientation for 9th grade students and families
- Interdisciplinary projects at all grade levels
- Peer Leadership (student ambassadors)
- Vertical and horizontal alignment for CTE courses
- Grade Level trips to engineering programs
- Developed new engineering courses

Updates

What are some examples of the implementation of your plan?

- Indicators of Success:
 - A-G Quality Schools Award for 2019-20 and 2020-21
 - Silver Certified by the Linked Learning Alliance
 - Accepted into PBL Leadership Academy
 - 100% fully enrolled in program of study
 - 100% of students participating in work based learning

Updates



What is different this year from 2019-20 in terms of pathway development?

- PLC Structure for Professional Development
- Pathway Advisory board meets monthly
- 4-year sequence of CTE Engineering Design courses
- Expanded pathway leadership team
- New Dual Enrollment courses
- Individualized Coaching
- More partnerships for work based learning

EVERY STUDENT THRIVES!



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