

PROJECT LEAD THE WAY (PLTW)

Aligned CTE Industry Sector: Engineering Technology

Rigorous Academics

Measure N Investments

- Staff planning time to build curriculum with an emphasis on project based learning, interdisciplinary units, and vertical and horizontal alignment

Pillar

Components/Activities

- All pathway 12th graders must pass the Senior Project
- 3-year course sequence is in place to develop engineering and design-thinking skill set
- Pilot program with students to create senior project prototype in addition to their capstone paper

Career Technical Education

Measure N Investments

- Funding for additional training, conferences, and professional development for CTE teachers
- Funding for guest speakers
- Site-based Pathway Coach

CTE Course Sequence

- Introduction to Engineering and Design (IED)
- Principles of Engineering (POE)
- Civil Engineering and Architecture (CEA)

Pillar Components/Activities

- Dual Enrollment Intro to Computer Programming through Laney College
- All pathway students enrolled in AP Computer Science Principles and AP Computer Science A+B offered
- Guest speakers from industry partners

Work-Based Learning (WBL)

Measure N Investments

- Site-specific Work Based Learning Liaison
- Summer Internship Program through ECCCO (*Exploring College, Career, and Community Options*)
- Guest Speaker Compensation

Partnerships

- Google
- Pandora
- PilotCity
- Penumbra Inc
- NAC Architecture
- Genesys Works
- Y-Plan (UC Berkeley)

Pillar

Components/Activities

- Job Fair
- Roundtable workshops of student work with industry partners (both at school and on-site field-trips)
- Career panels and study tours

Student Supports

Measure N Investments

- Pathway dedicated counselor
- Pathway dedicated AP
- Pathway dedicated case manager

Pillar

Components/Activities

- Tiered student intervention system with students of concern protocol and individual student supports
- Ongoing pathway re-branding to increase access and equity in Engineering
- Community building activities and trips
- Partnership with site-based Wellness Center
- Phased adoption of master-based grading

ENVIRONMENTAL SCIENCE ACADEMY

Aligned CTE Industry Sector: Energy, Environment, and Utilities
(Environmental Resources Pathway)

Rigorous Academics

Measure N Investments

- Staff planning time to build curriculum with an emphasis on project based learning, interdisciplinary units, vertical alignment

Pillar Components/Activities

- All pathway 12th graders must pass the Senior Project
- Pathway is currently developing a new Senior Capstone class: Environmental Justice
- Pathway is currently working with the Peralta system to articulate our 11th grade CTE course

Career Technical Education

Measure N Investments

- Funding for study tours
- Funding for guest speakers
- Site-based Pathway Coach

CTE Course Sequence

- Environmental Studies 1
- Environmental Studies 2
- AP Environmental Studies

Pillar Components/Activities

- Rotating Dual Enrollment Course offerings
- Guest speakers from industry partners
- Exploring options for industry certificates with Merritt College and/or industry partner.

Work-Based Learning (WBL)

Measure N Investments

- Site-specific Work Based Learning Liaison
- Summer Internship Program through ECCCO (*Exploring College, Career, and Community Options*)
- Guest Speaker Compensation

Partnerships

- EBMUD
- Sunpower
- Waste Management
- Planting Justice
- Sierra Club
- Bay Area Wilderness Training
- Metrolinx
- Rose Foundation

Pillar Components/Activities

- Study tours to job shadow
- Mock Interviews
- Job fair
- Resume workshops

Student Supports

Measure N Investments

- Pathway Dedicated Counselor
- Pathway Dedicated AP
- Pathway Dedicated Case Manager

Pillar Components/Activities

- Implementation of data informed intervention system that allows for broad analysis and deeper, student-specific inquiry.
- Community building activities on campus and in local green spaces.
- Partnership with site-based Wellness Center
- Adoption of the No-D Policy
- Partial adoption of mastery-based grading.

LAW & SOCIAL JUSTICE

Aligned CTE Industry Sector: Law & Public Service

Rigorous Academics

Measure N Investments

- Staff planning time to build curriculum with an emphasis on project based learning, interdisciplinary units, vertical alignment.

Pillar Components/Activities

- 3-year CTE course sequence
- 12th grade teacher holds Law CTE credential
- Senior Capstone incorporates pathway themes and topics relating to the law, community issues, and public service

Career Technical Education

Measure N Investments

- Funding for study tours
- Funding for guest speakers
- Site-based Pathway Coach

CTE Course Sequence

- 10 - Intro to Law & Social Justice
- 11- Development of American Justice
- 12 - Social Justice & Advocacy

Pillar Components/ Activities

- Rotating Dual Enrollment Course offerings
- Guest speakers from industry partners
- Partnership with Y-PLAN at UC Berkeley for civic engagement project based learning (grade 11)

Work-Based Learning (WBL)

Measure N Investments

- Site-specific Work Based Learning Liaison
- Summer Internship Program through ECCCO (*Exploring College, Career, and Community Options*)
- Guest Speakers & site visits

Partnerships

- Alameda County Public Defender's Office
- Alameda County Superior Courthouse
- Centro Legal de la Raza
- Center for Youth Development through Law

Pillar Components/ Activities

- Study tours to job shadow
- Mock Interviews
- Job fair
- Resume workshops

Student Supports

Measure N Investments

- Pathway Dedicated Counselor
- Pathway Dedicated AP
- Pathway Dedicated Case Manager

Pillar Components/ Activities

- Regular meeting time for pathway teachers and support staff (AP, counselor, case manager)
- Implementation of data informed intervention system that allows for broad analysis and deeper, student-specific inquiry.
- Tiered student intervention system with students of concern protocol and individual student supports
- Community building activities on campus and with community partners
- Partnership with site-based Wellness Center

PUBLIC HEALTH ACADEMY

Aligned CTE Industry Sectors: Public Health

Rigorous Academics

Measure N Investments

- Staff planning time to work on creating equitable mastery-based grading within the pathway.

Pillar Components/Activities

- Three-year sequence of CTE classes in place (since 2015)
- Senior Project completion required for graduation.
- Every senior has a staff project advisor for Senior Project.
- AP, dual enrollment, & concurrent enrollment classes encouraged but not required, with an emphasis on science & health.
- "No D" grading policy (since 2019)
- Visits to curriculum-aligned museum exhibitions and theater productions when available.

Career Technical Education

Measure N Investments

- Extended meeting time for staff to meet with community partners in order to further staff knowledge of public health issues.

CTE Course Sequence

- All three courses are UCCI (University of California Curriculum Integration approved).

10th: Public Health Solutions

11th: Literacy, Advocacy, and Public Service

12th: Reading & Writing for a Healthier World

Pillar Components/Activities

- Dual enrollment courses include health, and EMT training courses.
- All students receive CPR/First Aid training.
- Industry partners as classroom speakers.

Work-Based Learning (WBL)

Measure N Investments

- Student participation in summer internships through the ECCCO (Exploring College Career and Community Options) program.
- Work-Based Learning Liason

Partnerships

- Alameda County Public Health Department
- UC-Berkeley School of Public Health
- Science Dept. at Merritt College (nursing, histotechnology, microscopy, first responder)

Pillar Components/Activities

- Career symposium with Alameda County Dept. of Public Health
- Medical ethics debate at UCB School of Public Health
- Annual publication of *Cross-Cultural Medicine: A Collection of Student Narratives...*
- Resume dev. & mock interviews

Student Supports

Measure N Investments

- Pathway Assistant Principal
- Pathway Academic Counselor
- Pathway Case Manager

Pillar Components/Activities

- Community building activities and trips for all students
- Students of concern protocol and individual student supports with referrals to other services as appropriate
- Partnership with on-campus Wellness Center
- Phased adoption of mastery-based grading with an emphasis on equity
- Data-based program analysis

RISE

(RIGOR, INCLUSION, SOCIO-EMOTIONAL SUPPORT, ENGLISH LANGUAGE DEVELOPMENT)

Aligned CTE Industry Sector: Business

Rigorous Academics

Measure N Investments

- Staff planning time to build curriculum with an emphasis on project based learning, interdisciplinary units, vertical alignment.

Pillar Components/Activities

- Partial adoption of mastery-based grading.
- CTE Sequence still in development (currently working on developing 2nd year)

Career Technical Education

Measure N Investments

- Funding for CTE teacher

CTE Course Sequence

- Intro to Business
- Intermediate Business

Pillar Components/Activities

- Dual Enrollment business courses that offer certification after series completion

Work-Based Learning (WBL)

Measure N Investments

- Site-specific Work Based Learning Liaison
- Summer Internship Program through ECCCO (*Exploring College, Career, and Community Options*)

Partnerships

- Still in development

Pillar Components/Activities

- Mock Interviews
- Exploring College, Career, and Community Options Internships
- Job Fair

Student Supports

Measure N Investments

- Pathway Dedicated Counselor
- Pathway Dedicated AP
- Pathway Dedicated Case Manager
- Mam Case manager

Pillar Components/Activities

- Tiered student intervention system with students of concern protocol and individual student supports
- Partial adoption of mastery-based grading.
- Community building activities and trips for all students
- Teach students Mam and coordinate and provide services for our Mam speakers

VISUAL ARTS ACADEMY MAGNET PROGRAM

Aligned CTE Industry Sector: Visual Arts

Rigorous Academics

Measure N Investments

- Staff planning time to build curriculum with an emphasis on project based learning, interdisciplinary units, vertical alignment.

Pillar

Components/Activities

- 3 year course sequence is in place to develop an artistic skill set, related to an industry-specific strand.
- All pathway 12th graders must pass the Senior Project

Career Technical Education

Measure N Investments

- Funding for community-oriented art projects
- Funding for guest artists and speakers
- Site-based Pathway Coach

CTE Course Sequence

- Introduction to Art & Design
- Intermediate Visual/Commercial Arts
- Advanced Visual/Commercial Arts
- Introduction to Art & Design
 - Intermediate Digital Media
 - Advanced Digital Media

Pillar Components/Activities

- Dual Enrollment Photography through Laney College
 - Guest artists and industry partners

Work-Based Learning (WBL)

Measure N Investments

- Site-specific Work Based Learning Liaison
 - Summer Internship Program through ECCCO (*Exploring College, Career, and Community Options*)
 - Guest Speaker Compensation

Partnerships

- Museum of Children's Art (MOCHA)
- Civic Design Studios
- Clorox

Pillar

Components/Activities

- Mock Interviews
- Winter Artist's Market
- Spring Art Showcase & Gallery

Student Supports

Measure N Investments

- Pathway Dedicated Counselor
- Pathway Dedicated AP
- Pathway Dedicated Case Manager

Pillar

Components/Activities

- Community art engagement with our partners at Civic Design Studios.
- Internships Opportunities with Museum of Children's Art.
- Partial adoption of mastery-based grading.
- Intervention system with students of concern protocol and individual student supports