ACES Pathway Program
Creating Access to STEAM Academic and Career Pathways

STEAM Legacy HS
Wednesday, May 20, 2020
Mission:
To engage, expose and challenge students to explore architecture, engineering and construction careers by capitalizing on public works investment, community college STEAM course offerings and strong industry participation.

Goals:
• Facilitate community college enrollment in STEAM academic pathways, graduation and transfer rates.
• Expand access to transferrable college credit while in high school.
• Increase diversity of students entering the design and building industries.
• Provide introduction and pathway to union apprenticeship.
Immediate Outcomes:
• STEAM Career Exposure
• Education
• Internships
• College Credit
• College-Ready
• Career-Ready

Options upon HS graduation:
• Community College/University Enrollment
• Construction Management Internships
• Union Apprenticeship
Subjects:
Engineering, architecture, and construction courses leading to a recognized industry and education certificate, and transferrable college credit to California State University and University of California.

Participating Schools:
Alhambra High School
Helen Bernstein High School
Legacy High School
Mark Keppel High School
Mendez High School

Robert F. Kennedy Schools Now Academy
San Gabriel High School
Youth Build-Boyle Heights Charter
5-Keys Charter

Other:
- Workforce Readiness Certificate Training
- Financial Literacy Training
- 10-Hour OSHA Training Certificate
- First Aid/CPR Training Certificate
- Paid Summer Internship
Phase I

• Fall/Spring College Course
• Summer College Course
• Seminars and Field Trips

Phase II

• Summer Internship Program (Mid-July – August)
  ➢ Part-time and full-time internships
  ➢ Salary: Minimum wage or higher
  ➢ Students must successfully complete two college course(s) per academic year to participate
East Los Angeles College Courses

Programming Skills Certificate
- General Engineering 101
- MIT 220
- Electrical Engineering Technology 123

Engineering Graphics Skills Certificate
- Engineering Graphics and Design 101
- Engineering Graphics and Design 111
- Engineering Graphics and Design 121

Sustaining Energy Skills Certificate
- Electrical Engineering Technology 120
- Electrical Engineering Technology 122

ACES Students are first to earn ELACS Skills Certificates! 70 as of June 2019
LACCD College Course Subjects:

Courses leading to a recognized industry and education certificate, and transferrable college credit to California State University and University of California.

ARC 160    Computers for Designers
ARC 261    Computer-Aided Design for Architecture I
ARC 341    GIS Metropolitan Access Planning Systems
CS 101     Introduction to Computers and their Uses
CS 103     Introduction to Computers Systems for MIS
DRAFT 10   CADD for Sustainable Landscape Design
DRAFT 62   CAD for Architects
EET 123     Introduction to Arduino
ES 101     Plane Surveying
GE 101     Introduction to Science, Engineering and Technology
GE 212     Introduction to Engineering Design
MIT 220    Introduction to Robotics
PHYS 12    Physics Fundamentals
Class Activities & Internships

- Financial Literacy Workshop
- Architecture Camp
- ARC 160
- METRO LA Event
- College Official!
INDUSTRY EXPERIENCE
Surveying & City Engagement
ACES
Architecture Construction Engineering Students

OSHA
Occupational Safety and Health Administration

Building Trades
Multi-Craft Core Curriculum

Emerald Cities Collaborative

Los Angeles Trade-Tech College

BuildLACCD
Architecture Tour of Los Angeles

Walt Disney Concert Hall

Bradbury Building

MODERN ARCHITECTURE IN L.A.
USC Campus Tour

Tommy Trojan

School of Architecture
ACES witnessed a UCLA tradition first-hand!

Personal Moment with the Bruin Bear
Enrollment Eligibility & Application

- High School Student
- Submit ACES Enrollment Application
- Submit LACCD Enrollment Application
- Submit Campus Specific Course Enrollment Form
- Submit Parent Permission Slip/Authorization Letter
Fall 2020 Courses

- EGD TEK 101
  September 8 – December 17

Virtual Classes
Contact Information

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