

Agenda

- What is ACE?
- Introductions Site leads, students, parents
- Program Format
- Student Expectations
- Schedule
- **Project Overview**
- Scholarships
- Registration
- Questions



Architecture Construction

- The mission of the Active Program is to engage, excite and enlighten high school students to **pursue careers in architecture**, **engineering and construction** through mentoring, and to support their continued advancement in the industry.
- ACE's Primary Goals are to:
 - Create a large, diverse, better prepared workforce for our industry.
 - Assist and guide students as they proceed along their pathways to opportunities related to our industry.





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Architecture Construction

- ACE's more than 701 affiliates operate in 36 states, Puerto Rico and the District of Columbia.
- Over **9,500 students** and about **3,700 mentors** participate each year.
- ACE awards scholarships worth over \$2.4M each year, totaling more than +\$28M since the program's start.
- Annually, ACE mentors donate almost \$18M worth of their time to support students as they navigate the A-E-C industry.





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GREATER PHOENIX AREA ACE MENTOR PROGRAM www.acementoraz.com

08/2020

Architecture Construction

2022 ACE \$35K min Scholarships



GREATER PHOENIX AREA ACE MENTOR PROGRAM AFFILAITE OPERATES IN MARICOPA COUNTY

FOR 2021, THE 15-SESSION AFTERSCHOOL PROGRAM WAS DELIVERED VIRTUALLY TO STUDENTS AT 21 SCHOOLS ACROSS THE STATE, INCLUDING YUMA & TUCSON:

THE PROGRAM IS FREE-OF-CHARG





GREATER PHOENIX AREA





THE ACE MENTOR PROGRAM OF AMERICA (ACE) WAS CREATED IN 1994 BY THE INTEGRATED DESIGN AND CONSTRUCTION INDUSTRY.

THE GREATER PHOENIX AFFILIATE (ACE PHX) WAS ESTABLISHED IN 2007 TO MEET THE FUTURE WORKFORCE NEEDS OF ARIZONA.



VOLUNTEER PROFESSIONALS FROM ALL INDUSTRY SECTORS SERVE AS THE BACKBONE OF ACE PHX

THEY SERVE AS MENTORS, TEAM LEADERS, COACHES, AND CHAMPIONS FOR THE STUDENTS

THE COLLECTIVE VALUE OF THEIR IN-KINDS SERVICES SINCE THE AFFILIATE'S INCEPTION



IN THE 2020-2021 SCHOOL YEAR, THE PROGRAM WAS INTRODUCED TO 15 SCHOOL DISTRICTS AND SCHOOLS INTERESTED IN A-C-E CAREERS FOR THEIR STUDENTS

IN THE SAME SCHOOL YEAR, 37 STUDENTS (SOPHOMORES, JUNIORS, AND SENIORS) COMPLETED THE PROGRAM

TO DATE OVER 450 STUDENTS HAVE COMPLETED THE ACE PHX PROGRAM, RECEIVING EXPOSURE TO

A COLLEGE OR SKILLED CRAFT PROGRAM AND INDUSTRY PROFESSIONALS



SINCE ITS START, ACE PHX HAS AWARDED OVER \$130K IN FINANCIAL AWARDS TO PARTCIPANTS

IN 2021. ACE PHX AWARDED \$24K SCHOLARSHIPS TO 6 STUDENTS INTENDING TO

STUDY INDUSTRY-RELATED FIELDS IN COLLEGE OR ENTER A SKILLED CRAFT TRAINING PROGRAM

TO DATE THE AFEILIATE HAS AWARDED OVER \$121K IN SCHOLARSHIPS TO 62 STUDENTS.

GREATER PHOENIX AREA ACE MENTOR PROGRAM www.acementoraz.com

11/2021

Why is ACE important?

- Helps student evaluate the integrated construction industry as a **career path**.
- Construction is one of the **largest industries** in United States and employs more than 7 million people. There is serious workforce shortage so there are great opportunities for the next generation.
- Students work with **industry professionals** and **learn skills** including presentation skills, teamwork, organization and many others.
- The program also assists students in the process of **exploring post**secondary education.



Site Locations & Leaders

Apollo High School ... since 2021

Jay Noel Jinoel@sundt.com Steven CrofootSCrofoot@wespacaz.com

EVIT High School ... since 2017

Rachael Ceciliani

RCeciliani@mccarthy.com

Metro Tech High School ... since 2008

Art Aguilar AAguilar@mccarthy.com Fred Aidoo Frederick.Aidoo@smithgroup.com

MET Professional Academy at Peoria HS ... 2023Mike GonzalezMGonzalez@mccarthy.com

















Site Locations & Leaders

Moon Valley High School ... since 2018

Woody Glass WGlass@brinkmannconstructors.com Samantha Miller Samantha.Miller@mortenson.com

Tucson (Virtual) ... since 2020

Amy Peron APeron@norrisdesign.com **Rich Buchanan** RBuchanan@sundt.com

Yuma (Virtual) ... since 2020

John Kovesdy

JKovesdy@mccarthy.com

Virtual ... since 2020

Bobby Cannavino Cannavino@studioma.com

Chric Maronov

(Maronov@cazan.com

















Introduce students to different career paths in the A-C-E industry by completing a design project alongside industry professionals







Architecture



Interior Design



Landscape Architecture



MEP Engineering



Structural Engineering



Construction Management















Program Format

- Large Group Presentations
 - In-person or Google Meeting (for Virtual only)
 - Some in-person locations may log-in to Google Meet
 - Link will be the same each week
- Break Out Teams and Virtual Rooms
 - Miro Board Each team gets their
 own Board for both virtual and in person teams







WHY ACE?

- CREATIVITY
- PROBLEM SOLVING
- TEAM BUILDING
- NETWORKING
- PRESENTING
- SCHOLARSHIPS





Attendance

Participation

Team Work

Communication

Complete Deliverables

Exposure to careers in ACE Industry









What does a STUDENT do in a Session?

- Complete Assigned Activity or Task
- Works with their teammates and Mentors
- Ask a lot of Questions to your Mentors
- Learn about Career Opportunity & Networking
- Learn about Industry Practices & Methods
- Engage in active Participation
- MOST IMPORTANT ... Have Fun !!









- Program is **FREE** for all students.
- Attendance is tracked and accounted for with scholarship applicants.
- A computer is required with Virtual Students with access to wifi, camera and microphone
 - Please contact info@acementoraz.com if you need assistance with resources.



- Additional project work is encouraged outside of class.
- Students will utilize computer tools such as Miro, Google and sketchup
- Student participation during sessions is encouraged by mentors.





Student Communication

Weekly Emails - PLEASE RSVP

If your student is not going to attend a session it is expected that they will communicate that with their teammates and site leads.

Parents can opt in to receive weekly emails to stay informed about program. For more information please contact info@acementoraz.com.





Program Format

- Students are **assigned to teams** of 6-8 and stay together through the Program and are led by volunteer Mentors to help them along the way.
- Teams meet after school, every week, either in-person or virtually.
- A **design problem is assigned** for the Program, and each team goes through the design process learning various skills related to the ACE industry.
- Teams will go on **field trips** to actual construction sites and trade facilities
- At the end of the program, students will present their projects in a recorded video, and three will be selected to present live to the whole ACE AZ program.



2023 Schedule

https://www.acementoraz.org/Calendar

Program Introduction/ Structural Engineering January 12th

Landscape Architecture/ **Civil Engineering** January 19th

2

3

4

5

Architectural Programming & Guiding Principles January 26h

> **Floor Plan Design** February 2nd

3D Visualization February 9th



Varies by school





Working Sessions April 6th

Optional TUESDAY Working Sessions March 28th, April 4th, 1th

Presentation Recordings April 13th

SHOWCASE April 27th

2023 Project Program

Teams are challenged to design a **CULTURAL HUB** - a building, site, or complex that plays a vital role in retaining the values and beliefs of a community through its function and design.

Students will create a space that brings together the people of a community around specific activities to serve the varying needs of a community.

LEARN HUB:

Create and develop a space for continuing education and collaboration in the community

PLAY HUB:

Create and develop a fun and flexible space for activities in the community

REFLECT HUB:

Create and develop a space for contemplation or meditation in the community



PLAY - Performance Space



REFLECT - Memorial



PLAY+LEARN - Nature Trails

LEARN - Library

2023 Project Program

Questions to think about:

Is there something that your city or community needs that isn't available to them today?

How can the **CULTURAL HUB** fulfill that need for your community?

Students will be provided with the following information:

- Project Packets
- Weekly Session Break-Downs
- Miro Board Activities and Materials



NATURE - Papago Park



REUSE - Hayden Flour Mill

Example ACE Working Session:





Has all Team choices

Note any changes that are agreed upon

Has all Team Members voices been heard?

answer **PROGRAM QUESTIONS, A thru E**

• Think about 3D design

Construction Trades & Site Field Trips

PHX - EAST VALLEY – EVIT / Virtual

- Site Field Trip Talking Stick Resort & Casino
- Construction Trades
 McCarthy Workforce Center

PHX - WEST VALLEY – Apollo / MT / MV / Peoria / Virtual

- Site Field Trip
 Mountain Park Health
 Clinic
- Construction Trades
 Metal Weld Fabrication Plant

YUMA - TBA

TUCSON - TBA







Student Showcase

In-Person Event for ALL sites

6pm – 8pm with Food & Beverages Provided Students & their Families Mentors and Company Sponsors ACE Board Members

Student Presentations & Highlight Video

(3) selected Student Teams will present to audience

Student Presentation Judging

Evaluated based on Judging Criteria

Student Scholarship Awards

Applications due April 6th







Final Presentations















Final Presentation Judging

A. **Project Questions**

Effectively and clearly answers the Project Questions in their presentation.

B. Guiding Principles Exhibits 4 of the 9 principles

C. Project Creativity Exhibits unique design quality Provides needed purpose/value to the community

D. Project Development

Demonstrates a well-rounded project in architecture, construction & engineering

E. Graphic Presentation

Visually appealing and clearly conveys the project Includes required/defined aspects of presentation

F. Oral Presentation

Effectively communicates the project to the audience All members of the team participate in the presentation





Scholarships, Internships & Summer Camp

Last Year (2022) our Phoenix Affiliate provided ...

- (8) Senior Scholarships; total amount of \$38,000
- (5) Junior Awards; total amount of \$2,300
- (10+) Internships with Local Companies that support the ACE Program Summer Camp at University of Colorado for Juniors - TBD







GET REGISTERED

1. Login Page

Go to the login/registration page: <u>https://app.acementor.org/login</u>



SCAN ME





Sponsorship

Title Sponsor



Premier











COMPLETE

PROTECTION



Partner

Gold





Silver

MEYER | BORGMAN | JOHNSON

STRUCTURAL DESIGN + ENGINEERING

Bronze











QUESTIONS??? info@acementoraz.org

SEE YOU JAN 12TH FOR SESSION #1!





