

ACE ADVANCES Architecture



THE PRESSING NEED

- Most **(79%)** architecture firms doubt the U.S. student pipeline will meet future workforce needs.¹
- The majority **(51%)** of A/E and construction firms believe the current younger generation of students does not find architecture appealing.¹

A POTENT SOLUTION

The ACE Mentor Program of America

- Persuades high school students to pursue an architecture career
- Motivates students to study in high school
- Benefits students throughout college
- Diversifies and increases the future architectural workforce

Three years of survey data substantiate these and other conclusions.*



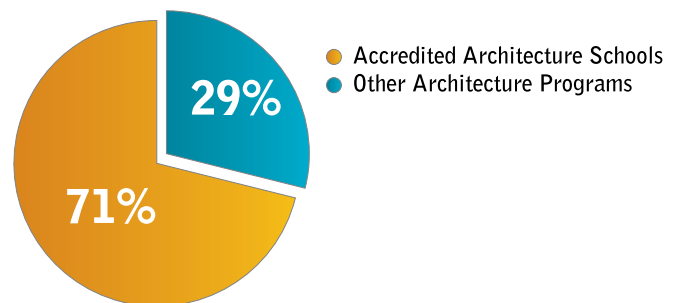
IMPACT ON STUDENTS IN HIGH SCHOOL

- ACE students learn first-hand information about architecture careers.
Virtually all (98%) ACE alumni agree ACE gave them useful information about careers in the design/construction industry, according to three separate surveys of 2009, 2010, and 2011 alumni.
- High school studies become more meaningful for ACE students.
Almost three-quarters (73%) of ACE alumni in 2010 and 2011 studying architecture agree ACE made their high school studies more meaningful.
- ACE motivates students to study in high school.
As a result of their ACE experience, three-quarters of 2011 alumni and almost two-thirds (64%) of 2010 alumni agree they felt greater motivation to study in high school.
- ACE persuades undecided participants about an architecture career.
Approximately 40% of 2009, 2010, and 2011 alumni expressed some degree of doubt about pursuing architecture before they joined ACE. All of these students entered college with a declared major in architecture.
- In 2010 ACE alumni constituted 3.4% of all college freshmen intending to major in architecture.²
- In 2012, 21.5% of ACE high school seniors entered 67 accredited architecture schools or other architecture programs. (43% of 2012 ACE high school seniors declared college majors in other design/construction industry-related fields.)

“ACE has really changed my life, because before ACE I didn’t know what I wanted to do but now I do!”

— 2011 alumnus, 1st year architecture

% of 2012 Alumni Architecture Majors by Type of Architecture Program



% of 2012 Alumni Architecture Majors by Type of Institution

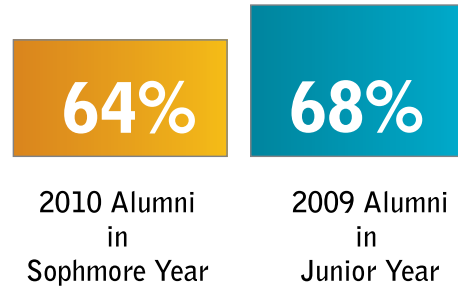


- University or 4-Year College
- Two-Year College

IMPACT ON STUDENTS IN COLLEGE

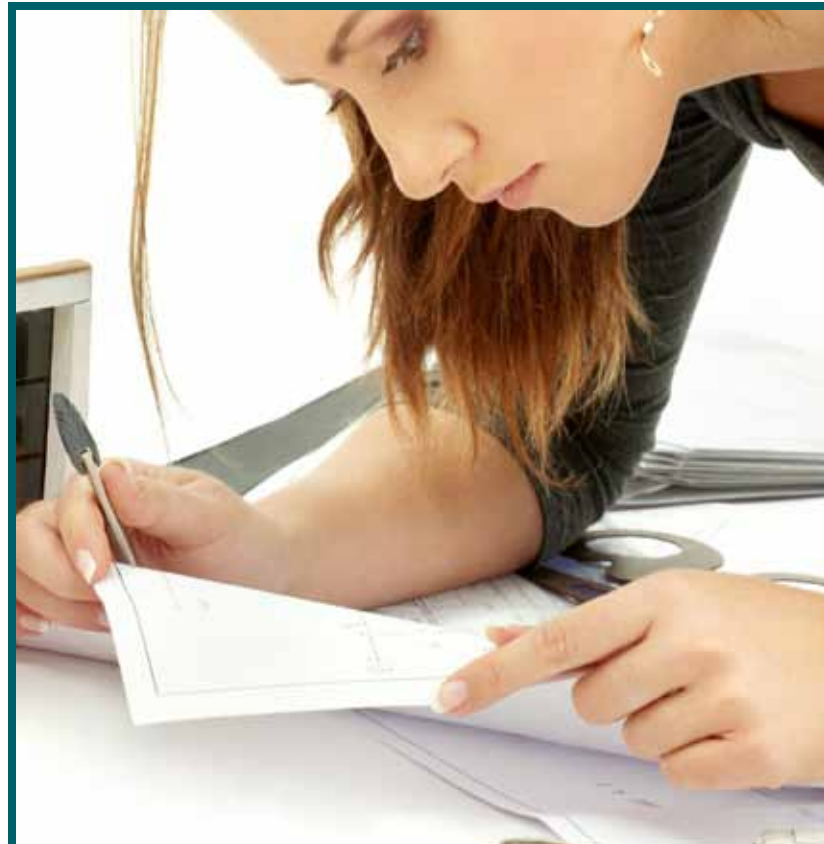
- ACE gives architecture majors an advantage in their freshman year.
An overwhelming majority (87%) of 2009, 2010 and 2011 alumni who declared an architecture major believe ACE gave them an edge over their peers.
- ACE continues to benefit architecture majors beyond freshman year.
Ninety percent (90%) of sophomores and juniors in architecture programs agree their ACE experience continues to help them in their studies, according to two spring 2012 surveys.
- ACE alumni in architecture programs maintain high GPAs.

Percentage with Cumulative GPA of 3.0+ (Spring 2012)



“My ACE experience is helping me through my second architecture design class. Through the process of designing my own theoretical structures for projects, I reminisce on the process that I had to go through with my ACE team, helping me be organized, open minded to all the possibilities of design, and think practically based on the structure’s function.”

— 2009 alumna, 3rd year architecture



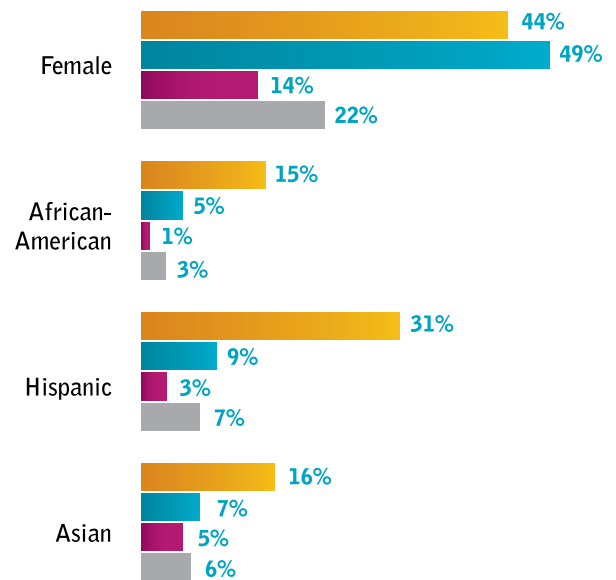
“ACE was a meaningful experience. It made me realize how much architecture was for me and now it gives me an extra edge on other students in my class.”

— 2011 alumnus, 1st year architecture

IMPACT ON FUTURE ARCHITECTURAL WORKFORCE

- ACE significantly contributes to greater diversity in the future architecture workforce.
- ACE alumni stick with architecture studies. No ACE alumni in their sophomore and junior years dropped out of architecture schools or programs, according to separate spring 2012 surveys. (Comparable national data is not available.)
- ACE students learn useful work life skills — teamwork, problem solving, leadership, and communication of ideas. Virtually all (97%) ACE alumni studying architecture in their freshman, sophomore, and junior years of college agree ACE taught them valuable work life skills, according to three separate spring 2012 surveys.
- ACE helps students develop a professional network useful for their future career advancement. Two-thirds (64.5%) of 2009 alumni in their junior year agree connections to their mentors give them a valuable network.

Diversity Compared — ACE, National Freshmen, AIAs and Associate AIAs (Percentage of Total)



- ACE Alumni Entering Arch. Programs 2012
- National Freshmen Planning Arch. Major 2010³
- Licensed Architects 2009⁴
- Associate AIAs 2009⁴

“ACE really helped pave the way in the networking that is required in the Architectural Field. It also taught me that architecture is much more than designing a building but more about the people that you work with as a team to achieve that goal.”

— 2010 alumna, 2nd year architecture

“I’m glad that I became a part of ACE. This program has shown me how to be a leader and work as a team.”

— 2010 alumnus, 2nd year architecture

**ACE Survey Data

1. 2012 Summer Survey of 2012 Alumni (n=1,637). Response rate, 37%; +/- 3% margin of error.
2. 2012 Spring Survey of 2011 Alumni (n=1,766). Response rate, 26%; +/- 4% margin of error.
3. 2012 Spring Survey of 2010 Alumni (n=1,488). Response rate, 19%; +/- 5% margin of error.
4. 2012 Spring Survey of 2009 Alumni (n=1,579). Response rate, 14%; +/- 6% margin of error.
5. 2011 Spring Survey of 2010 Alumni (n=1,488). Response rate, 31%; +/- 4% margin of error.
6. 2011 Spring Survey of 2009 Alumni (n=1,579). Response rate, 20%; +/- 5% margin of error.
7. 2011 Winter Survey of 2009 Alumni (n=1,579). Response rate, 29%; +/- 4% margin of error.

Notes

- 1) McGraw-Hill Construction, *Construction Industry Workforce Shortage*, 2012.
- 2) According to *The American Freshman National Norms, Fall 2010* Research Brief published by the Higher Education Research Institute of UCLA in January 2011, an estimated 9,064 students entered baccalaureate institutions of education with a declared architecture major. Based on the 2011 Spring Survey of 2010 ACE Alumni, approximately 310 students entered baccalaureate programs intending to major in architecture.
- 3) *The American Freshman National Norms, Fall 2010* Research Brief published by the Higher Education Research Institute of UCLA in January 2011.
- 4) Sherry Snipes, “Developing the Pipeline,” www.aia.org/about/initiatives/AIAB081825, accessed August 25, 2012.