



# DESIGN SCIENCE HIGH SCHOOL CONSTRUCTION ACADEMY PROPOSAL PREPARING CAREER READY GRADUATES

## **PROPOSAL:**

Design Science High School in cooperation with Fresno City College will create a construction academy focused on preparing youth for career ready options in construction upon graduation.

## **KEY PARTNERS:**

Design Science High School, Fresno City College, Fresno Unified School District, State Center Community College District, California State University, Fresno.

## **POTENTIAL PARTNERS:**

Regional Jobs Initiative, Local Builders, Engineering Firms, Architectural Firms, National Association of Women in Construction, Local Trade Unions.

## **CHALLENGE:**

Employment in the construction industry will increase over the next several years. Some estimates indicate that increase at one million jobs by 2012. The industry has great difficulty recruiting and retaining skilled labor.

## **ADDRESSING THE CHALLENGE:**

Design Science High School and Fresno City College will partner to create the Construction Academy. This Academy is a two-year opportunity that will target high school seniors who show an interest in construction. Students will spend the morning at their respective high schools in core subject areas and will take construction courses at Fresno City College in the afternoon. Students will graduate from high school in year one and will return to Fresno City College to complete the course requirements as freshman in college. This program will lead to several options of completion. Students may earn:

- ∞ Associate of Science Degree in Construction (This will take longer than the two-years allocated)
- ∞ Transferable credit to CSU Fresno (Focus on a Bachelors in Construction Management)
- ∞ Certificate of Achievement in Construction

## **PROJECTED OUTCOMES:**

- ∞ Career-Ready Graduates
- ∞ Thirty students per year entering the construction workforce
- ∞ Exposure to post secondary instruction for high school seniors
- ∞ Industry involvement in secondary and post secondary education

## **COST OF PROGRAM:**

Students will fill out waivers for college tuition. Books and fees should not exceed \$200 per student per year charged to Fresno Unified School District. Students will be responsible for tools ranging in price from \$100-300 per student. Scholarships may be available.

## **SEQUENCE OF COURSES:**

The Construction Academy is a two-year program and includes one summer session. First year students will attend classes in the afternoon on a Monday through Thursday schedule. No classes will be offered on Friday in the first year. The summer session will be required between the senior year in high school and the freshman year of college. Second year students will attend their classes on the job site. This is a Monday through Friday course. The culmination of the second year classes will be the completion of the Fresno City College project house.

	Year 1	Year 2
Fall	Construction 55 Roof Framing Systems	Construction 51 Residential Construction: Foundations and Framing Applied Technology 21 Occupational Safety and Health Applied Technology 131 Technical Report Writing
	Construction 50A Basic Residential Construction	
	Architecture 12 Architectural Practices	
Spring	Construction 50 B Basic Residential Construction	Construction 53 Residential Construction: Exterior and Interior Finish
	Architecture 21 Material of Construction	
	Applied Technology 40 Preparing for Employment	Architecture 22 Architectural Practice
	Applied Technology 10 Technical Computer Applications	
Summer	Applied Technology 130 Industrial Math	No Offerings

### **SUPPORT AND SUPERVISION:**

While students are attending classes at Fresno City College, a staff member from Design Science High School will check to make sure students are having success in classes. Close contact will be maintained with the staff at Fresno City College. Students will receive tokens for transportation and all required college paperwork will be handled by the student and staff of Design Science High School.

### **ENROLLMENT REQUIREMENTS:**

Students who are interested in the program should have the following characteristics:

- ∞ Must be a Senior in High School and in good standing
- ∞ Be serious about a career in construction
- ∞ Be performing at grade-level
- ∞ Demonstrate an excellent attitude
- ∞ Have excellent attendance
- ∞ Work well individually and in groups
- ∞ Score at, or qualify for, English 125 on the Fresno City College placement test
- ∞ Score at, or qualify for, Math 101 on the Fresno City College placement test

### **ENROLLMENT PROCESS:**

Interested students will need to complete the application process. Incomplete applications cannot be considered. The following are the requirements to be completed. Please check the following website to download the application and recommendation forms: <http://www.designsciencehighschool.com>

- ∞ Completed Application
- ∞ Completed Letter of Recommendation
- ∞ Complete Fresno City College Application (Provided by Design Science High School)
- ∞ Complete Board of Governors Waiver or FAFSA waiver as appropriate (DSHS)
- ∞ Complete the Fresno City College placement exams

### **NOTIFICATION:**

Students will be notified by mail upon acceptance to the program. Students must remain in good standing before and during the course of the program. Placement is based on a first come, first served format. A waiting list will be generated, however, no mid year placements will be accepted. All successful applicants will begin coursework in the fall of their senior year.