



# UTeach Outreach

CHANGING THE WORLD, ONE FUTURE SCIENTIST, ENGINEER, AND MATHEMATICIAN AT A TIME.



As one of the University of Texas at Austin's largest outreach initiatives, UTeach Outreach focuses on closing the opportunity gap by bringing STEM learning to underserved populations in the greater Austin area. UTeach Outreach works closely with teachers, parents, and school administrators to engage K-12 students and teachers in hands-on, inquiry-based lessons.



## KEY UTEACH OUTREACH INITIATIVES

**Service Learning Classes.** UT students from all majors earn credit by enrolling in UTeach Outreach courses where they learn to teach rigorous, engaging STEM lessons to students in grades 2 through 8, inspiring them to explore and understand science principles.

**After-School Clubs.** These after-school clubs inspire students in grades 3 through 6 to pursue STEM careers. After-school clubs extend the school day curriculum and connect the student to real-world research, industry, and careers.

**UT PREP Summer STEM Pathway.** The summer program is a series of rigorous, five-week academic enrichment courses focusing on mathematics, research, engineering, physics, and computer science. The program is designed to take place over four consecutive summers for students beginning in 6th or 7th grade, leading to advanced high school coursework in STEM subjects.

*"As a principal in a Title I school, I wish more of these programs were available for my students."*

**Dolores Godinez, Ph.D.,**  
principal

*"This program inspires students to think like a scientist, not simply within the walls of a classroom, but every moment of their lives."*

**Vittoria,**  
Prep 3 UTeach Intern

2017-2018

## UTEACH OUTREACH COMMUNITY IMPACT

**70,000** Individual student STEM contact hours each year

**24,000** Hours UTeach Outreach is engaged in public school lessons each year

**6,600** Hours worked on STEM-related special events and UTeach Outreach

**200** UTeach Outreach students and volunteers teaching lessons each year

**450+** Students attending summer STEM programs in 2018

**130** Kids attend after-school clubs organized by UTeach Outreach

**38** Austin-area schools served every semester

[outreach.uteach.utexas.edu](http://outreach.uteach.utexas.edu)

[@UTeachOutreach](https://twitter.com/UTeachOutreach)

[facebook.com/UTeachOutreachUTAustin](https://facebook.com/UTeachOutreachUTAustin)



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# UTEACH OUTREACH UT PREP STEM PATHWAY

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The UT PREP Summer STEM Pathway provides historically underrepresented students in the Austin area a supportive and enriching academic experience designed to increase the number attending college and pursuing STEM careers.

The camps offer a rigorous hands-on, inquiry-based curriculum over four summers. Camp participants learn how to design, test, and evaluate scientific phenomena and use critical thinking skills. An ongoing career and college exploration component targets the social and emotional needs of the campers as they gain resilience and skills to thrive in the most challenging pathways. After PREP 4, we help students locate additional opportunities, including internships in STEM fields, or returning to work with PREP 1 students.

- Students earn up to 4 credits toward their Texas HB 5 High School STEM Endorsement.
- Camps prepare students for AP and dual-credit coursework in mathematics, sciences, and technology.
- Camp participants learn about STEM careers, tour campus, play sports in UT facilities, meet UT researchers/professors, and experience student life.
- Summer learning is extended throughout the year with free UTeach Outreach STEM clubs and middle school computer science programs in up to eight local schools each year.

## PREP 1

COMPUTER SCIENCE I,  
LOGIC, ENGINEERING  
FOUNDATIONS,  
MATHEMATICAL  
PROBLEM SOLVING

## PREP 2

COMPUTER SCIENCE II,  
ALGEBRAIC STRUCTURES,  
ENGINEERING PHYSICS,  
ADVANCED PROBLEM  
SOLVING

## PREP 3

COMPUTER SCIENCE III,  
PROBABILITY AND  
STATISTICS, TECHNICAL  
WRITING, ADVANCED  
PROBLEM SOLVING IN  
RESEARCH & INQUIRY

## PREP 4

COMPUTER SCIENCE IV,  
COMPUTER-BASED  
PROBLEM SOLVING,  
STEM CAPSTONE



### 2018 UT PREP Community Partners / Collaborators

Austin Achieve Public Schools  
Austin Independent School District  
Austin Partners in Education  
Del Valle Independent School District  
Harmony Public Schools  
IDEA Public Schools  
Literacy First  
Summer STEM Investment

Texas Advanced Computing Center  
The University of Texas at Austin  
The University of Texas at Austin  
College of Natural Sciences  
The University of  
Texas at Austin  
Freshman Research  
Initiative

**UTeach Outreach Summer STEM | [outreach.uteach.utexas.edu](http://outreach.uteach.utexas.edu)**

## UT PREP 2018 IMPACT

**395** Students graduated from UT PREP 1-4 Camps

**192** High-quality STEM program hours per camp participant

**76%** Received full or partial scholarships

**72%** Qualified for the federal Free or Reduced-Price Lunch program

**56%** Female camp participants

**27%** Overall average gained in learning from pre-post tests in core subjects

### DEMOGRAPHICS

59% Hispanic  
17% Asian American  
12% Anglo  
7% African American  
5% Other

