

U Teach Expansion Program

Preparing Excellent STEM Teachers

A workforce skilled in science, technology, engineering and math is critical to United States innovation, economic prosperity and national security. **Experts estimate that our country will need 100,000 more math and science teachers to ensure that today's students are prepared to thrive in the 21st century and to solve our toughest challenges.**

To address this need, the National Math and Science Initiative partnered with the UTeach Institute at The University of Texas at Austin to expand the innovative UTeach STEM teacher preparation program to universities across the country. The program enables undergraduate students majoring in STEM fields to earn teaching certification without adding cost or time to their degrees.



Results + Impact

U Teach Graduates Increase Student Learning

An independent research study of six Texas UTeach programs found that UTeach teachers are more effective at increasing student learning in secondary math and science than non-UTeach teachers, as measured by their ability to raise student test scores.

UTeach Austin graduates boosted student learning by an equivalent of four to six months of additional classroom education:



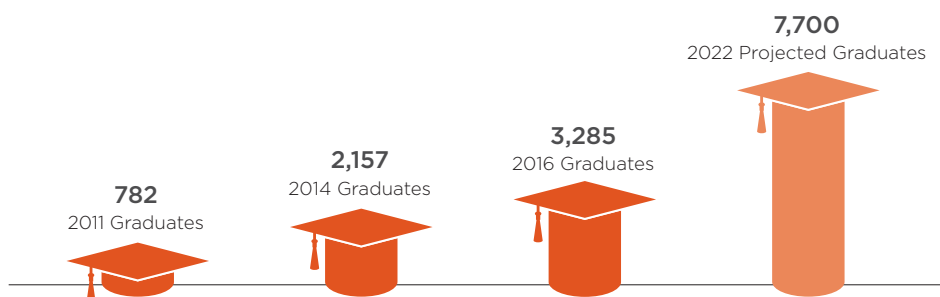
Additional learning
in **MATH**



Additional learning
in **SCIENCE**

Building the STEM Teacher Pipeline

The UTeach Institute projects that more than 7,000 graduates will be produced by 2022 and that these teachers will reach more than 4 million students.



Elements of Success

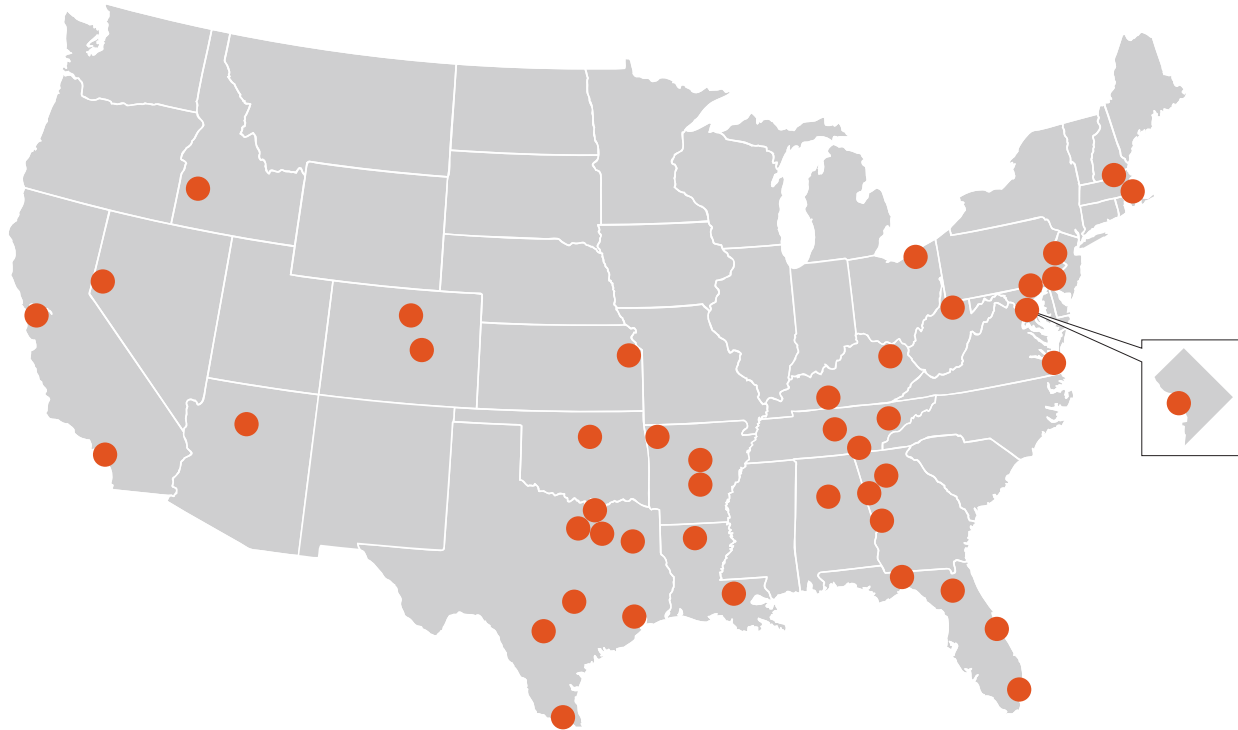
The UTeach model is a unique collaborative partnership between colleges of science and education that equips teachers with deep content knowledge in their STEM discipline and pedagogical strategies to promote student mastery of core concepts and principles.

The program's key elements include:

- A compact and flexible degree program that allows students to graduate in four years with both a STEM degree and teaching certification.
- Research-based strategies focused on building connections between STEM content and educational theory and practice.
- Early and intensive teaching experience beginning in UTeach students' first semester.
- Comprehensive induction support, including participation in NMSI's nationally recognized Laying the Foundation Program, to help graduates transition to their teaching positions.
- Ongoing mentoring and guidance from highly experienced master teachers.

National UTeach Network

Since 2007, UTeach has expanded to 45 universities across 21 states and the District of Columbia.



Boise State University
Cleveland State University
Columbus State University
Drexel University
Florida Institute of Technology
Florida International University
Florida State University
George Washington University
Kennesaw State University
Louisiana State University
Louisiana Tech University
Middle Tennessee State University
Morehead State University
Northern Arizona University
Oklahoma State University

Old Dominion University
Temple University
Towson University
The University of Alabama at Birmingham
University of Arkansas, Fayetteville
University of Arkansas, Little Rock
University of California, Berkeley
University of California, Irvine
University of Central Arkansas
University of Colorado, Boulder
University of Colorado, Colorado Springs
University of Florida
University of Houston
University of Kansas
University of Maryland, College Park

University of Massachusetts Boston
University of Massachusetts Lowell
University of Nevada, Reno
University of North Texas
The University of Tennessee, Chattanooga
The University of Tennessee, Knoxville
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Dallas
The University of Texas Rio Grande Valley
The University of Texas at San Antonio
The University of Texas at Tyler
University of West Georgia
Western Kentucky University
West Virginia University

*Backes, B., Goldhaber, D., Cade, W., Sullivan, K., and Dodson, M. (2016) *Can UTeach? Assessing the relative effectiveness of STEM teachers* (CALDER Working Paper No. 173). Retrieved from <http://www.caldercenter.org/publications/can-uteach-assessing-relative-effectiveness-stem-teachers>