

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:



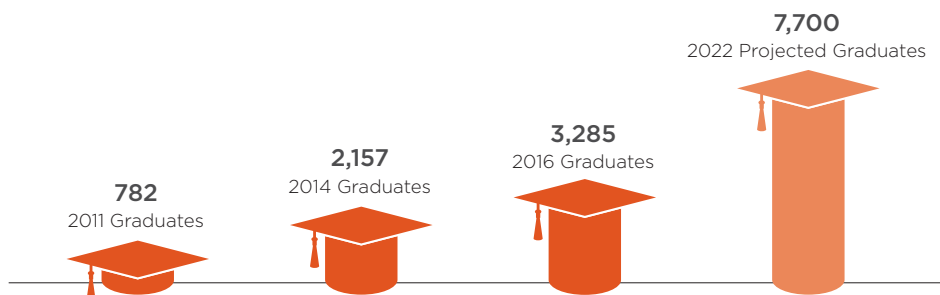
Additional learning
in **MATH**



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.

