



This project is funded by a grant from the Improving Undergraduate STEM Education (IUSE) program of the National Science Foundation.



The Teaching Experiences for Undergraduates (TEU) program offers participants an immersive summer experience in secondary mathematics education at Brown University. Selected from a national network of 61 liberal arts institutions, TEU participants earn a generous stipend, take a 60-hour course in mathematics pedagogy, and apply what they're learning to teaching urban high school students under the supervision of a master teacher-mentor.

A six-week summer program funded by the National Science Foundation, TEU aims to develop future educational leaders. If you are committed to a career in secondary education or seriously interested in exploring the possibility of such a career, apply now.

For information or to apply: *TEU.vassar.edu*

Application deadline: February 28, 2016

Acceptances announced: March 15, 2016

Program start date: June 20, 2016

TEU participants receive:

Generous stipend

Travel expenses

Room and board

Books and course materials

Option to earn credit for pedagogy course

Funding to attend national or regional conference on STEM education

TEU participants complete:

Mathematics pedagogy course

Teaching practicum under the supervision of a mentor

A post-summer science education leadership project at home institution

TEU applicants must be U.S. citizens or permanent residents.

Pedagogy Course

The equivalent of at least a semester-long course, the math pedagogy course is taught by the TEU summer director of mathematics.

This course will introduce participants to basic principles and best classroom practices for effective classroom teaching of secondary mathematics.

Areas of emphasis will include the Common Core Standards for Mathematical Practice, fostering of mathematic practice, fostering mathematical thinking in students through active learning, and analysis of student work to improve teacher practice. Assignments for the course include daily readings, weekly reflections, an end-of-the-course assessment, and a closing conference.

Participants have the option of earning Brown University credit for the pedagogy course.

Practicum

During weeks three through six, participants work in teams of two to teach a mathematics class of their own design to 25-30 students as part of the Brown Summer High School program.

Brown Summer High School brings around 200 local high-needs high school students to campus for four weeks each July for classes in English, history, math, and science.

A mentor, either the TEU summer director of mathematics or a local master teacher, will closely supervise each team. The mentor will monitor each class, provide feedback, and contribute professional expertise in classroom management techniques and lesson design.

Each team will debrief daily with their mentor.

The Brown TEU also includes up to two mini-workshops with visiting leaders in mathematics education.

Post TEU Activities

Leadership Project

Following the summer program, TEU participants will undertake a leadership project at their home institution. Such a project could be: serving as a math teaching assistant; peer tutoring; conducting a workshop on implementing the Common Core Mathematics Standards for other pre-service teachers at their home institution; serving as peer advisor for standards-based lesson planning; organizing or tutoring in an after-school tutoring program at a local school; or giving a campus talk about mathematics teaching and the TEU program. At the project's conclusion, participants will submit a brief report.

Conferences

To support ongoing connections among participants and to contribute to their leadership development, TEU will provide funds to send students to a relevant STEM meeting in the year after their participation. Relevant STEM meetings include those sponsored by the National Council of Teachers of Mathematics and the National Science Teachers Association as well as many other STEM discipline-specific educational organizations.

In addition, TEU will host follow-up conferences for TEU participants. The conference for 2016 and 2017 participants will take place in 2018. The conference for 2018, 2019, and 2020 participants will take place in 2020. Participants will attend workshops and have the opportunity to give poster and oral presentations describing the ways in which they have built on what they learned since the summer program.

Participant Support

Room and Board

Participants are housed in single rooms in dormitory-style housing.

Three meals a day are provided in the campus dining hall.

Stipend and Expenses

Stipends for participants range between \$2,500 and \$3,500 based on whether or not they choose to receive degree credit for the pedagogy course and on their financial aid status at their home institution. Travel expenses to and from Brown University are reimbursed, and books and other course materials are provided.