



UTEACH PROGRAM AT UMASS BOSTON



Presentation to the School Committee
April 27, 2016

UTeach Program Presentation

- *Dean Michael Middleton, College of Education and Human Development*
- *Dean Andrew Grosovsky, College of Science and Mathematics*
- *Donna Muncey, Deputy Superintendent of Strategy*
- *Emily Kalejs Qazilbash, Assistant Superintendent of Human Capital*
- *Ceronne Daly, Director of Diversity Programs*

Agenda

- Introduction
 - Emily Kalejs Qazilbash, Assistant Superintendent of Human Capital, BPS
- Overview of UTeach (15 minutes)
 - Dean Andrew Grosovsky, College of Science and Mathematics, and
 - Dean Michael Middleton, College of Education and Human Development
- Perspectives (5 minutes)
 - 2 UTeach undergraduates
- Questions & Answers (10 min)

UTeach Program

- The UTeach Program is answering **the urgent call** for more qualified math and science K-12 instructors;
- UTeach produces teachers who are **confident and competent** in their subject matter and who **want** to stay in the classroom;
- UTeach is providing a bold and effective blueprint for a new way of recruiting and preparing math and science teachers.

<https://www.nms.org/Programs/UTeachExpansionProgram.aspx>

History of UTeach Program

- UTeach began at The University of Texas at Austin in 1997 as an innovative way to recruit undergraduate science, technology, engineering and mathematics (STEM) majors and prepare them to become teachers
- UTeach grew out of the conviction that public universities have a profound role to play in improving the public education system
- UTeach became a national benchmark in providing an enhanced alternative career pathway for STEM students, thus increasing the numbers and diversity of well-trained K-12 Science Teachers

What is UTeach at UMass Boston?

- 5-year grant through the National Math and Science Initiative from the Howard Hughes Foundation to join an elite association of 43 other UTeach Programs in universities in 21 states and the District of Columbia
- Prepare STEM teachers for secondary classrooms and further training for those already placed in classrooms nationally

Why UMass Boston?

- We are the only public research university in Boston, uniquely located within the Red Line or Life Sciences Corridor
- We serve a highly diverse population of students, most of whom remain in the Commonwealth after graduation

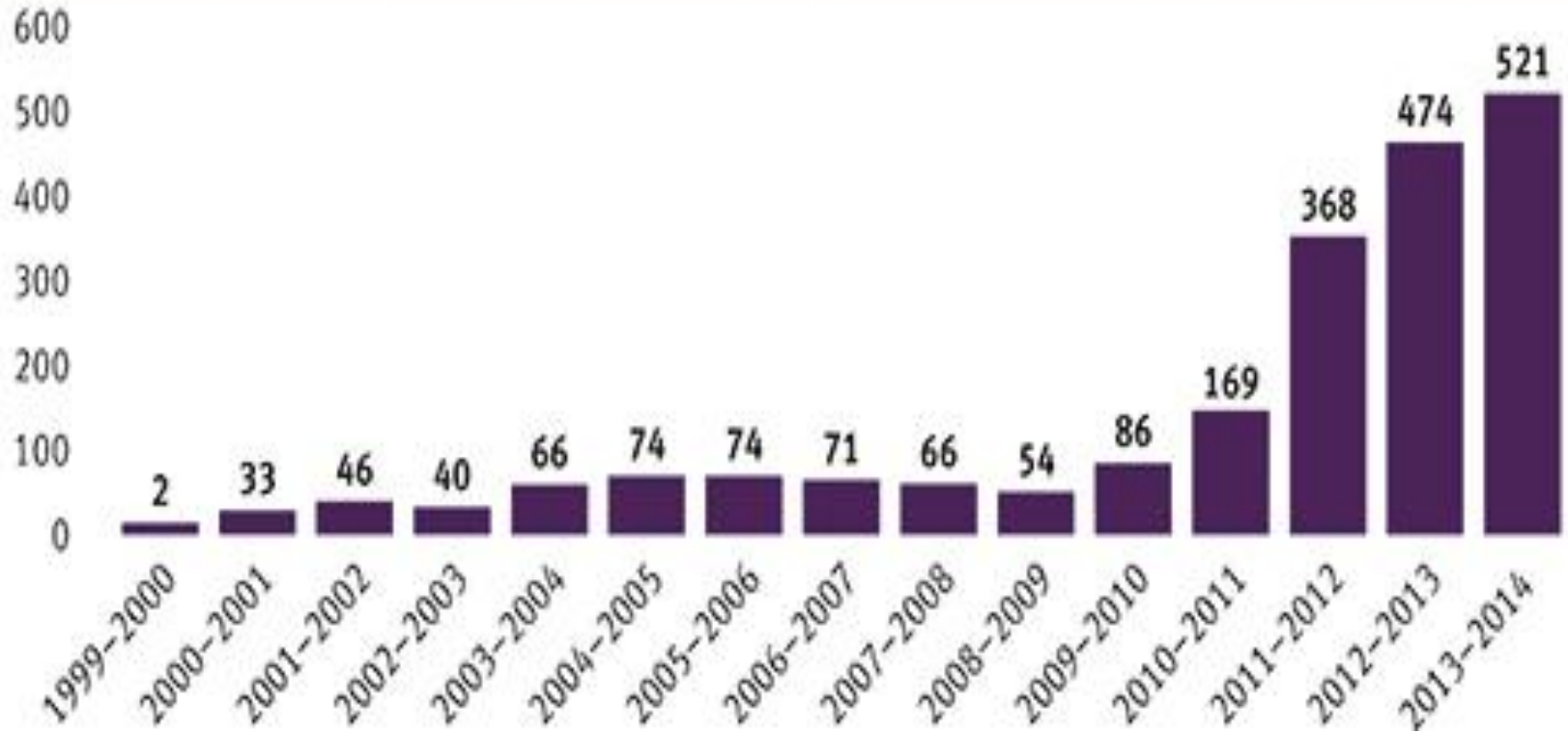
UTeach at UMass Boston

- UMass Boston's College of Science and Mathematics (CSM) implements a comprehensive STEM development strategy with an emphasis on addressing economic and social inequalities
- The College of Science and Mathematics established a strong, sustainable, and scalable model for STEM Student Success

The UTeach Instructional Program:

- develops deep conceptual understanding and mastery of subject-area content
- makes explicit the underlying connections between mathematics and science
- develops proficiency in core mathematics and scientific practices
- develops research and information analysis skills
- integrates content and pedagogy
- builds strong connections between educational theory and practice
- emphasizes inquiry and project based instructional approaches
- integrates themes of assessment, equity, literacy, and technology
- cultivates reflective practice

ANNUAL UTEACH GRADUATE PRODUCTION



Graduates obtaining teaching credentials: 97%

Graduates entering teaching: 87%

Graduates retained in teaching: 76%

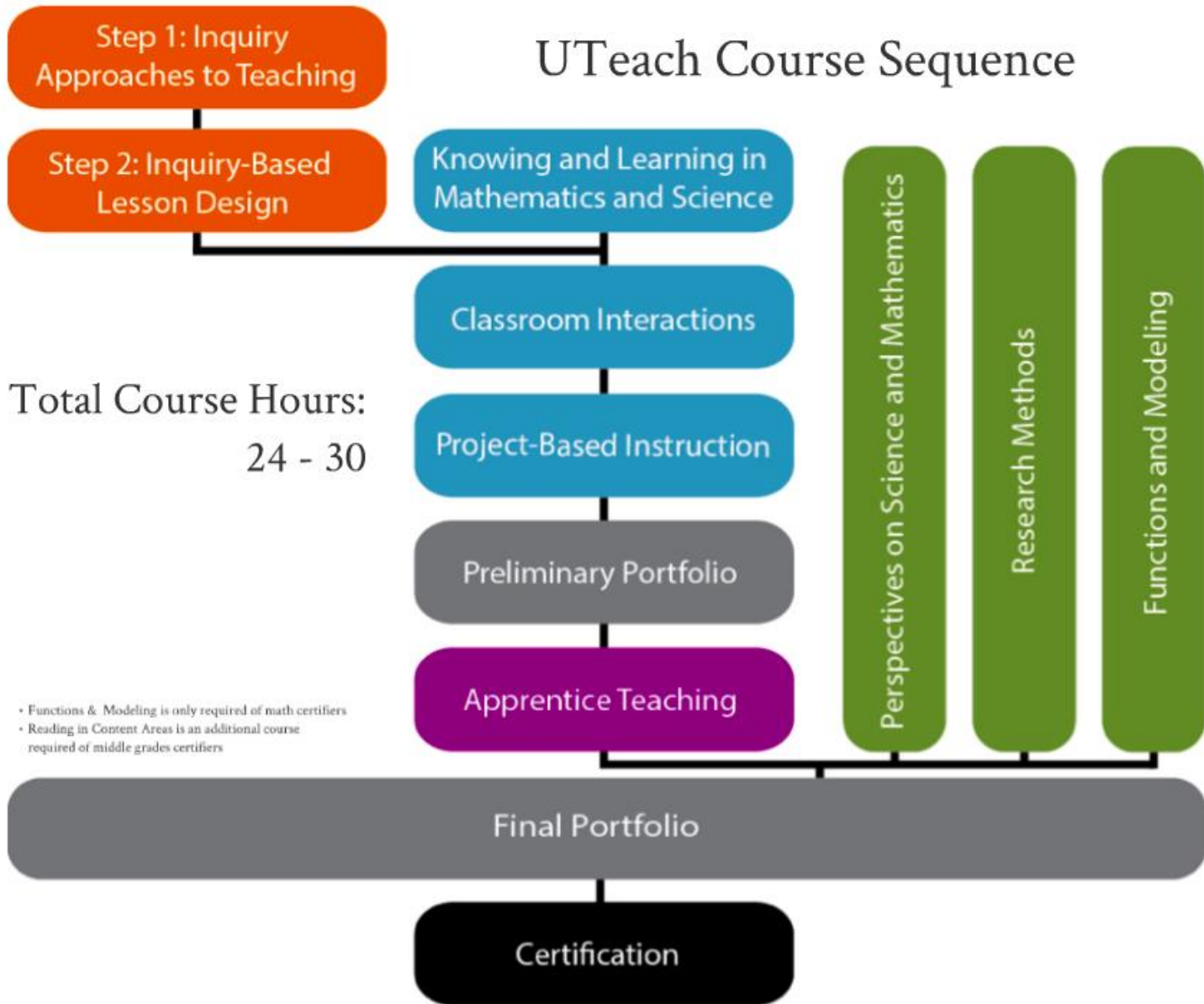
Graduates who teach in schools with a majority low-income population: 66%

In the UMass Boston UTeach program and partnership model:

- students experience teaching from their very first semester and continuously throughout the program in partner school placements;
- students receive intensive coaching and feedback on lesson development and teaching from master teachers and school-based trained mentors; and
- field experiences are tightly articulated with the UTeach curriculum and closely supervised by course instructors, master teachers, and mentor teachers in partner schools.



UTeach Course Sequence



Total Course Hours:
24 - 30

- Functions & Modeling is only required of math certifiers
- Reading in Content Areas is an additional course required of middle grades certifiers