Boston University’s Noyce Scholars Programs

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Robert Noyce Scholarship Programs

- Boston University’s Noyce Scholars Program in Mathematics, 2007-2013
  - Prepares middle school and high school mathematics teachers as Noyce Scholars

  - Prepares middle school and high school mathematics teachers as Teaching Fellows
  - Supports experienced teachers as Master Teachers to assume leadership positions
Math for America Boston: Master Teachers

Candidates must:

- Have a master’s degree in mathematics, mathematics education or related field
- Have a strong background in mathematics
- Teach in a high-need school or district
- Exhibit leadership or potential for leadership
- Receive support from school principal
- Enroll in an advanced graduate degree program
  - Certificate of Advanced Graduate Study (CAGS)
  - Master’s in Mathematics for Teaching (MMT)
The CAGS and MMT programs includes:

- Immersion in Mathematics
- Coursework in Mathematics Education
  - Mathematics for Special Needs Students
  - Classroom-based Research
  - Teaching Calculus in the High School
  - Mathematics Curriculum: Issues and Trends
- Professional Development Courses/Field Study
Immersion in Mathematics

- Graduate-level courses in Number Theory through the PROMYS for Teachers program
- Five academic-year seminars that link higher level mathematics to the high school curriculum
- Opportunities to work in the PfT program in subsequent years as a Teaching Assistant
Leadership Development

- Master Teachers
  - Study how students learn with understanding and how to support teachers in teaching for understanding
  - Learn how to create quality professional development programs
  - Become experts in mathematics curriculum
  - Practice leadership through working with Noyce scholars and pre-service teachers
Professional Development for Colleagues

• Exponential and Logarithmic Functions
• Linking Representations of Functions
• Connecting Mental Math and Algebraic Thinking in the Elementary Grades
Membership in Mathematical Communities

- Strong collaboration between the mathematics department and the mathematics education department
  - PROMYS for Teachers
  - Focus on Mathematics II (BU MSP Project)
  - STEP UP program
  - Upward Bound

- Partnership with Math for America

- Joint Activities
  - Seminars
  - After-school workshops
  - Monthly meetings
  - Social events
Master Teachers Continue Teaching While Involved in a Variety of Leadership Activities
A Sampling of Leadership Activities

- School-based
  - Led curriculum implementation efforts and/or curriculum alignment with CCSS
  - Presented PD sessions to teachers
  - Coordinated a school’s first MATH EXHIBITION
  - Mentored first and second year teachers

- Community-based
  - Participated on State and National conference panels
  - Worked in BU’s teacher preparation program preparing teachers
  - Wrote problems for the Illustrative Mathematics Project
More Information

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