



NEW YORK INSTITUTE OF TECHNOLOGY
SCHOOL OF EDUCATION
AND PROFESSIONAL SERVICES

Mathematics Education

Ours is a mathematically dependent world. Every day, we make decisions that require mathematics knowledge and understanding. For this reason, the development of mathematical literacy in all children is a critical educational goal. New York State, however, has a serious shortage of qualified math teachers.

NYIT's undergraduate Adolescence Mathematics Education program leads to a bachelor's degree and eligibility for NYS initial certification as a teacher of Mathematics for grades 7-12. It combines a solid foundation in mathematics with a strong professional education component grounded in both theory and practice. Candidates have extensive field experiences in local 7-12 classrooms and develop teaching skills through observation, one-on-one, small group and whole class activities, and complete their preparation with a full semester of student teaching. They enter the teaching profession prepared to empower learners to excel in the application of mathematics in their everyday lives to solve problems and use their understanding of numbers, operations, geometric relationships, fractions, and algebraic thinking in the situations they encounter. The program also integrates instructional technology throughout and develops candidates' expertise in implementing technology as the foremost tool for teaching and learning.






The Mathematics Education program offers you:

- ✓ Extensive foundation in mathematics, including Calculus, Probability, Applied Statistics, Linear Algebra, and Differential Equations
- ✓ Career preparation in an area of teacher shortage in NYS
- ✓ Eligibility for NYS certification as a teacher of Adolescence Mathematics, Grades 7-12
- ✓ Guided experiences that develop technological know-how and strategies
- ✓ Development as a reflective practitioner, melding learning theory with practice for student success
- ✓ Caring, creative learning environment with faculty committed to excellence in education



Program of Study

-  Arts and Science Core
-  Mathematics Concentration



Teacher Education Foundation/Professional Core

-  Educational Foundations
-  Introduction to Educational Technology
-  Curriculum and Instruction
-  Teaching, Learning, and Growth
-  Serving Special Needs Students

Pedagogical Applications

-  Teach Reading
-  Methods and Materials of Teaching Mathematics

Field Experience/Professional Semester

-  Student Teaching
-  Student Teaching Professional Seminar

Education Program Faculty	Campus	Contact Information
Dr. Srilata Bhattacharyya, Coordinator, Subject Area Teacher Education	Old Westbury	516.686.7541
Dr. David Arneson	Old Westbury	516.686.7582
Dr. Dolores Burton	Old Westbury	516.686.7798
Dr. Todd Campbell	Old Westbury	516.686.7936

Admissions

- ✓ Candidates begin their mathematics concentration in freshman year, their education course work as early as sophomore year. NYIT students: Apply for this program by the end of your freshman year.
- ✓ A GPA of at least 2.75 and effective written and oral communication skills in English are required.
- ✓ Applications for teacher education programs are reviewed throughout the year by a faculty Professional Teacher Education Committee.
- ✓ Contact the Coordinator or faculty member for further information or to request a catalog and application.
- ✓ Visit the NYIT website at www.NYIT.edu
- ✓ For a campus visit or an appointment with an advisor, call 516.686.7777