

MATHEMATICS EDUCATION (7–12; PTCP)

Postbaccalaureate Teacher Certification Program

Program Code: UG-PBC-AS

Major Code: MTS

Mathematics Department

Science and Mathematics Complex 159

(716) 878-5621

mathematics.buffalostate.edu/ (<http://mathematics.buffalostate.edu/>)

Accredited: Council for the Accreditation of Educator Preparation (CAEP) (formerly NCATE)

Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs (<http://ecatalog.buffalostate.edu/graduate/admission-graduate-program/admission-all-education-programs/>)" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.

The mathematics education (7-12) postbaccalaureate teacher certification program leads to eligibility for a New York State initial certificate to teach mathematics in grades 7-12. This program is designed for students who have earned a baccalaureate degree in mathematics from an accredited college or university and intend to complete coursework required for New York State certification to teach mathematics.

Candidates should consult the Teacher Certification website for current seminars and workshops. <https://teachercertification.buffalostate.edu/seminars-and-workshops> (<https://teachercertification.buffalostate.edu/seminars-and-workshops/>)

After successfully completing the teacher certification program and passing required New York State teacher certification exams, students are eligible to apply for New York State certification through the Teacher Certification Office, Chase Hall 222. No degree or certificate is awarded by Buffalo State.

Financial Assistance

For financial aid purposes, students are considered fifth-year undergraduates, eligible for undergraduate loans.

Admission Requirements

1. A bachelor's degree in mathematics or an applied mathematics field from an accredited college or university with 36 credit hours of mathematics courses and a minimum GPA of 3.0 (4.0 scale) in mathematics courses.
2. Two years of high school or one year of college-level foreign language.

In addition, all applicants should review the Admission to a Graduate Program (<https://ecatalog.buffalostate.edu/graduate/admission-graduate-program/>) section in this catalog.

Program Requirements

Requirements may be fulfilled entirely with graduate courses, entirely with undergraduate courses or with a combination of undergraduate and graduate courses. Graduate-level courses are numbered 500 and higher; undergraduate-level courses are numbered 100–499.

Code	Title	Credit Hours
Mathematics Education Courses (18-25 credit hours)		
MED 200	FOUNDATIONS OF TEACHING MATHEMATICS 7-12 AND FIELD EXPERIENCE	3
or MED 500	PRACTICUM I: GRADUATE FIELD EXPERIENCE IN SECONDARY MATHEMATICS EDUCATION	
MED 307	USES OF TECHNOLOGY IN THE TEACHING OF MATHEMATICS	3
or MED 607	TECHNOLOGY IN MATHEMATICS EDUCATION	
MED 383	LEARNING AND TEACHING PROBLEM SOLVING	3
Select one from the following:		3-4
MED 308	METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS	
MED 601	SEMINAR IN THE TEACHING OF MATHEMATICS	
Select one from the following:		6-12
MED 407 & MED 408	STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL and STUDENT TEACHING OF MATHEMATICS IN HIGH SCHOOL	
MED 501 & MED 502	PRACTICUM II: PRACTICE TEACHING MATHEMATICS IN THE MIDDLE SCHOOL and PRACTICUM III: PRACTICE TEACHING MATHEMATICS IN THE HIGH SCHOOL	

Professional Education Courses (13-15 credit hours)

SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3
SPF 403	HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION	3
or SPF 525	PHILOSOPHY OF EDUCATION	
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
or EDU 513	THEORY, RESEARCH AND PRACTICE IN LITERACY INSTRUCTION	
EDU 417	ADOLESCENT LITERACY	3
or EDU 609	RESEARCH AND PRACTICE IN ADOLESCENT LITERACY	
MED 502	PRACTICUM III: PRACTICE TEACHING MATHEMATICS IN THE HIGH SCHOOL	1-3
MED 524	MATHEMATICS INSTRUCTION AT THE SECONDARY LEVEL	1
EXE 100	NATURE AND NEEDS OF INDIVIDUALS WITH SPECIAL NEEDS	1-3
or MED 524	MATHEMATICS INSTRUCTION AT THE SECONDARY LEVEL	
Total Credit Hours		34-43