



Mathematics Education

Initial/Professional Certification

This program is for those who:

- do not hold a valid NYS Initial Teacher Certificate in Mathematics grades 7-12.
- are seeking the Master of Education as well as a recommendation for the Initial Teacher Certificate in Mathematics grades 7-12 with a grades 5-6 extension.

Subject Code & Number	Course Title	СН	SEM	GRADE			
Core Courses: 18-21 CH							
CEP 400*/501 AND ELP 405*/548/585 OR LAI 663	Psychological Foundations of Education AND Foundations of Education or Sociological Bases of Education OR Socio-cultural Dimensions in Learning and Human Development	3-6					
LAI 474*/574	Teaching the Exceptional Learner	3					
LAI 414*/514	Adolescent Writing Across the Curriculum	3					
LAI 552	Middle Childhood/Adolescent Literacy Methods	3					
LAI 618	Methods of Teaching Mathematics Gr 5-12	3					
LAI 698	Instructional Strategies in the Inclusive Classroom	3					
Major Requirements: 6 CH							
(Courses listed are f	or illustrative purposes only. Students select coursework in consul	tation	with an	advisor)			
LAI 515 OR LAI 541	Action Research to Improve Teaching and Learning OR Mathematics Instruction Seminar	3					
LAI 542 OR LAI 545 OR LAI 600	Enrichment Topics, Elementary and Middle School Math OR Problem Solving and Posing in Mathematics OR Curriculum Integration and Assessment	3					
Major Area Content		<u> </u>	•				
In consultation with an advisor, student selects LAI 541 and electives in Mathematics and/or Science as it							
applies to Mathematics offered through the College of Arts and Sciences or the Graduate School of Education.							
(courses listed are for illustrative purposes only).							
LAI 534	Measurement & Evaluation of STEM Instruction	3					
LAI 541	Mathematics Instruction Seminar	3					
LAI 542	Enrichment Topics, Elem & Middle School Math	3					
LAI 543	Implications of the History of Mathematics	3					
LAI 546	Teaching & Learning of Algebra	3					
LAI 547	Assessment of Math Performance & Understanding	3					
LAI 553	Technology in Secondary School Math Education	3					
LAI 597	Select Topic: Teaching Math to ELLs	3					
Clinical Experiences: 12 CH							
LAI 667	Field Experience	3					
LAI 674	Seminar in Teaching	3					
LAI 668	Supervised Teaching I	3					
LAI 595	Supervised Teaching II	3					





Culminating Event: 0-6 CH					
Project	Programmatic Portfolio	0			
LAI 700/701 Individual Guidance Project or Individual Guidance Thesis	Individual Guidance Project or Individual Guidance Thesis (With permission of Faculty Advisor only)	1-6			
Total Credit Hours: 48-51					

Advisement notes:

- Successfully completing 667 and 674 with a B- or higher satisfies the LAI 700 capstone requirement
- To progress to student teaching, students must successfully complete all previous grad work with a B- or better *at minimum*:
- Undergraduate coursework (LAI 414, CEP 400, and ELP 405) is only applicable if previously completed as a UB undergraduate student with a grade of "B-" or better.

Completion of Program

To successfully earn a Master of Education degree (EdM) from the University at Buffalo, students must:

- Earn grades of B- or better in all program coursework
- Achieve overall GPA of at least 3.0
- Meet any conditions of admission and/or continued admission
- Complete any required content area or general education courses

Applying for Teacher Certification

Students who successfully complete this program are eligible to receive initial/professional certification through the New York State Department of Education (NYSED) Approved Teacher Preparation Program pathway. For more information about the certification process, please contact the Office of Educator Preparation at 716-645-2461, http://ed.buffalo.edu/edprep

For additional program information, visit: http://ed.buffalo.edu/teaching/academics/teacher-ed/math.html