



Science Education

(Biology, Chemistry, Earth Science, or Physics)

For those who hold a valid NYS Initial Teacher Certificate in *Biology, Chemistry, Earth Science, or Physics* (grades 7-12) and are seeking the Master of Education as well as a recommendation for the Professional Teacher Certificate (grades 7-12) in the same content area as your valid NYS Initial Teacher Certificate. The Professional Extension (grades 5-6) in the same content area is an additional option.

Name: _____ Person Number: _____

III. Professional Certification/Master of Education (Grades 7-12 only or 7-12 plus 5-6 extension)

	Date	Credit	Grade
MAJOR AREA REQUIREMENTS (9 credits)			
LAI 531 Science Curricula: Current Approaches		3	
LAI 533 Science Instruction: Topics		3	
LAI 534 Measurement and Evaluation in Science Instruction		3	
MAJOR AREA ELECTIVES (Select 12 credits from the following)			
LAI 525 Science, Technology, and Human Values		3	
LAI 528 Teaching Science in Context		3	
LAI 530 Improving Elementary Science Education		3	
LAI 532 Technology and Science Education		3	
LAI 535 Environmental Education		3	
LAI 637 Research in Science Education		3	
LAI 639 History and Philosophy of Science for Science Teachers		3	
Other electives with advisor approval		3	
CONTENT CONCENTRATION or GRADES 5-6 EXTENSION Choose Option 1 OR Option 2 (12 credits)			
Option 1 – GRADES 5-6 MIDDLE CHILDHOOD EXTENSION (12 credits)			
Choose from the following courses: LAI 599, LAI 603, and other Middle Childhood electives with advisor approval.			
1.		3	
2.		3	
3.		3	
4.		3	
Option 2 – GRADES 7-12 CONTENT CONCENTRATION (12 credits)			
Graduate-level coursework in respective concentration (biology, chemistry, earth science, or physics) to be jointly determined by the student and advisor. Coursework selected from College of Arts and Sciences graduate electives.			
1.		3	
2.		3	
3.		3	
4.		3	
CAPSTONE EVENT (Select one of the following three options)			
Comprehensive Exam		0	
LAI 700 Project OR LAI 701 Thesis (May be substituted for credit hours within <i>Option 1 – Grades 5-6 Middle Childhood Extension</i>)		3-6	
TOTAL CREDITS		33	

Continued on next page

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Students who successfully complete the program will be awarded an Ed.M. degree from the University at Buffalo (successful completion includes individual program course grades of B- or higher and an overall GPA of at least 3.0; as well as successful completion of any applicable conditions of admission and/or any applicable conditions of continued enrollment; also see GSE Policies and Procedures for additional requirements).

Please note the following:

GSE Application to Candidacy Form:

Upon successful completion of 18 to 21 credits in the Ed.M. program, submit a completed *GSE Application to Candidacy* form to LAI (505 Baldy Hall). The form must include your advisor's signature. The *Application to Candidacy* form can be found on the Graduate School of Education's website (www.gse.buffalo.edu). The form is also available in the wall pockets outside of 505 Baldy Hall.

Apply for Graduation via the HUB Student Center:

Notify the University of your expected conferral (graduation) date via the HUB Student Center. The "apply for graduation" link is on the "My Academics" tab.

If you plan to graduate on:	File your application via the HUB by:
Graduation Term: Spring (June 1)	February 15
Graduation Term: Summer (September 1)	June 15
Graduation Term: Fall (February 1)	September 15

Note: Should you miss the above deadline, you will need to apply for the next conferral (graduation) date.

Applying For Teacher Certification:

Program completion does not automatically lead to a University at Buffalo recommendation for the issuance of a professional teacher certificate, and a University at Buffalo recommendation does not automatically lead to the issuance of this certificate. To apply for a professional teacher certificate, you must meet the program requirements of the University at Buffalo (as specified within this document, as well as all applicable prerequisite distribution requirements and any other requirements specified at the point of admission or thereafter as a condition of continued enrollment) and the certification requirements of the New York State Education Department (such as the teaching experience). For information about the certification application process, please contact the Teacher Education Institute (716-645-2461, <http://gse.buffalo.edu/tei>). Please note, completion of the program in which you are enrolled may only lead to a University at Buffalo recommendation for the issuance of a professional teacher certificate in the content area of this program; if you are applying for teacher certificates in other areas of certification, you should contact the New York State Education Department and/or the certification officer at your local BOCES.