

## Computer Science Education Initial/Professional Certification

*This program is for those who:*

- *do not hold a valid NYS Initial Teacher Certificate in Computer Science (all grades).*
- *are seeking the Master of Education as well as a recommendation for the Initial Teacher Certificate in Computer Science (all grades).*

The Initial/Professional certification program in Computer Science is a residency-based program which uses a cohort model. Students are expected to enroll in coursework according to the schedule below.

Subject Code & Number	Course Title	CH	SEM	GRADE
<b>Year 1, Fall semester (12 CH)</b>				
LAI 551 OR LAI 552	Childhood Literacy Methods OR Middle Childhood/Adolescence Literacy Methods	3		
LAI 562	English Language Learners: Theory and Practices	3		
LAI 676	The Pedagogy of Programming	3		
LAI 698	Instructional Strategies in Inclusive Classrooms	3		
<b>Year 1, Spring semester (9 CH)</b>				
LAI 574	Teaching the Exceptional Learner	3		
LAI 611	Methods in Teaching Computer Science, Grades 1–12	3		
LAI 677	Survey of Topics in K–12 Computer Science	3		
<b>Year 2, Fall semester (12 CH)</b>				
LAI 605	Critical Computational Literacies	3		
LAI 663	Sociocultural Dimensions of Learning and Human Development	3		
LAI 667	Field Experience	3		
LAI 668	Supervised Teaching I	3		
<b>Year 2, Spring semester (12 CH)</b>				
LAI 515	Action Research to Improve Teaching and Learning	3		
LAI 595	Supervised Teaching II	3		
LAI 674	Seminar in Teaching	3		
LAI 700	CS Education Capstone	3		

<b>Total Credit Hours: 45</b>			
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**Advisement notes:**

- To progress to student teaching, students must successfully complete all previous grad work with a B- or better *at minimum*:

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/computer-science.html>