



Computer Science Education

Master of Science in Education

This Master's degree will prepare candidates to teach Computer Science Education at all grade levels. Courses will be offered in an online or hybrid format. Candidates will complete a minimum of 105 clock hours of field work prior to student teaching and a full-time student teaching experience. Successful completion of the program leads to institutional recommendation to NYSED for initial and or professional certification (teacher licenses). Program completers must also meet all other NYSED certification requirements including, passing the Content Specialty Test in Computer Science, to receive certification from NYSED.

ADMISSIONS REQUIREMENTS

- Official transcripts from all institutions attended.
 - Have attained a bachelor's degree (or its equivalent) from an accredited college or university.
 - Have attained a minimum undergraduate grade point average of B (3.0) GPA.
- Two letters of recommendation
 - One recommendation must be from college or university instructor (required).
 - Second recommendation can be obtained from another instructor or supervisor in a work setting.
- Current professional resume.
- A 500-word essay focused on career goals.
- Applicants who satisfy the preliminary admission requirements will be invited to an individual interview with the program coordinator. If a candidate does not meet preliminary admission requirements, they can request a meeting to discuss conditional admission.

DEGREE REQUIREMENTS

Students must complete a minimum of 105 clock hours of field work prior to student teaching and a full-time student teaching experience. Field hours and/or student teaching will include a combination of field experiences and student teaching in pre-kindergarten through grade 6 and grades 7 through 12.

Notes

- * Please review the New York State Education website for updates about certification (Teacher License) requirements.
- * The Computer Science Content Specialty Test is not yet available. Candidates will be manually exempted from this requirement until the CST is available. <https://eservices.nysed.gov/teach/cerhelp/search-cert-reqs>
- * The new New York Education Department Computer Science Content Specialty Test (194) is expected to be available for testing in summer 2025. https://www.nystce.nesinc.com/TestView.aspx?f=HTML_FRAG/NY194_TestPage.html

Course Sequences

Sequence 1: Standard (Hybrid)

Online courses are designated as such (OL). Other courses will be offered in hybrid format.

Fall 1

ESC 501, ESC 537 (OL), ESC 506

Spring 1

CMP 567 (OL), ESC 502

Fall 2

CMP 568 (OL), ESC 529, ESC 538

Spring 2

CMP 569 (OL), CMP 566 (OL)

Fall 3

ESC 595/596, ESC612

Sequence 2: Distant Format (Online)

While all course meetings will be held in an online format, field/clinical hours must be completed in an educational setting.

Fall 1

ESC 501, ESC 537, ESC 506

Spring 1

CMP 567, ESC 502

Fall 2

CMP 568, ESC 529, ESC 538

Spring 2

CMP 569, CMP 566

Fall 3

ESC 595/596, ESC 612

Course Requirements

Credits

Course descriptions below are identical for online and hybrid options.

Foundations (12 credits; 55 clock hours of field experience)

ESC 501	Psychological Foundations of Education	3
ESC 502	Historical Foundations of Education: A Multicultural Perspective	3
ESC 506	Special Needs Education in TESOL and Secondary Settings	3
ESC 529	Language and Literacies Acquisition in Middle & High School Education	3

Computer Science Education (6 credits; 50 clock hours of field experience)

ESC 537	Principles of Computer Science Education I	3
ESC 538	Principles of Computer Science Education II	3

Computer Science Content (12 credits)

CMP 566	Computer Thinking for Educators	3
CMP 567	Programing Methods I for Educators	3
CMP 568	Programing Methods II for Educators	3
CMP 569	Data Structures and Algorithms for Educators	3

Clinical Capstone (4-6 credits; Full-Time participation in School Setting)

ESC 612	Seminar in Secondary and TESOL Student Teaching	3
ESC 595	Internship in Classroom Teaching	1-3

Students are required enroll in ESC 595, 2-credit option.

OR

ESC 596	Student Teaching in Middle and High School Grades	3
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Questions about the program?

Prof. Wesley Pitts

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Questions about admissions?

The Office of Graduate Admissions

<https://www.lehman.edu/graduate-admissions/applying/>