

SCIENCE EDUCATION TEACHER PREPARATION PROGRAM

Master of Science (M.S.) in Science Education (Grades 7–12)



Syracuse University's master's program in Science (Biology, Chemistry, Earth Science, or Physics) Education Grades 7–12 prepares teachers for teaching diverse students in 21st-century classrooms.

THE PROGRAM ALIGNS WITH THE PROFESSIONAL standards of the National Science Teachers Association and the New York State Teaching and Learning Standards. From experiences in university classrooms, online, and in schools and communities, you will learn to design inclusive, culturally relevant pedagogy for all students. The program graduates new professionals who are prepared to teach science using inquiry-based methods that engage learners in the practices of science and promote deep conceptual

understanding of core concepts. Whether working in classrooms or in the community, our graduates understand the key role that science educators play in developing the scientific literacy skills necessary for lifelong learning and active engagement in a world where science and technology play a pivotal role.

The program requires 36 credits and is designed to be completed full time in 14 to 16 months, beginning in May. However, students who enter with education study equivalent to one of

the courses below may have their syllabi reviewed for waiver of courses. In no case will fewer than 30 graduate credits be required.

WHY APPLY TO SU'S SCIENCE EDUCATION PROGRAM, GRADES 7 TO 12?

- You will take classes with tenured and tenure-track faculty who are deeply interested in educational theory and research in the field of science education.
- Our program has strong collaborative ties with faculty in science departments. You will continue to develop your content knowledge and inquiry skills through a mentored science research experience and coursework in the nature of science.

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SYRACUSE UNIVERSITY

- A coordinated series of methods courses will prepare you to effectively teach science to adolescent learners and to engage communities.
- Small student cohorts mean you get to know teachers and peers who will become your lifelong colleagues.
- Three terms—summer, fall, and spring—center on intensive field placements to provide rich teaching experiences with youth from diverse backgrounds.

ADMISSIONS COURSE PREREQUISITES

Applicants need a completed undergraduate major in the science area of future certification or a minimum of 30 semester hour credits in that science area (biology, chemistry, earth science or physics). Courses from departments other than these science areas (e.g., engineering science) will be evaluated on an individual basis for appropriate science content to be used toward the 30 credits.

Please find more information about science, the application process, and liberal arts course prerequisites and requirements on the program website. Prospective students are encouraged to connect with the department about these requirements and with other questions early in, or before beginning, the application process.

CONTACT

School of Education

Science Education
Teacher Preparation
Program

Department of Teaching
and Leadership

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soe.syr.edu/academic/teaching_and_leadership/graduate/masters/science_education/default.aspx

soe.syr.edu

M.S. SCIENCE EDUCATION (36 CREDITS)

FIRST SUMMER

COURSE		CREDITS
EDU 606	Understanding Learning and Teaching	4
SCE 718	Curriculum Problems in Science	3
RED 625	Literacy Across the Curriculum	4

FALL—CANDIDACY SEMESTER

SPE 612	Adapting Instruction for Diverse Student Needs	3
SCE 613	Methods and Curriculum in Teaching/Science	3
EDU 508	Student Teaching/Candidacy/Science (Eleven weeks of part-time teaching in a local school)	3
EED 640	Safe and Healthy Learning Environments	0

SPRING—STANDARD STUDENT TEACHING SEMESTER

EDU 508	Student Teaching/Science (Eleven weeks of full-time teaching in a local school)	6
SCE 616	Assessment and Data-Driven Instruction/Science	3

SECOND SUMMER

ELL 645	Issues in Educating English Language Learners	3
SCE 614	The Nature of Science in Science Education	3
SCI 670	Science Research Experience	1