



Syracuse University
Adolescence Science Teacher Education (7-12 Grades)
(Biology, Chemistry, Physics, and Earth Science)

Program at Syracuse University leading to adolescence teacher certification in grades 7-12 (biology, chemistry, physics, earth science).

Professional Education Courses and Experiences:

A. Courses typically taken prior to professional semesters. These may begin as early as the second semester of the freshman year. Field experiences listed here and in the professional semesters described below are in both urban and non-urban schools.

- EDU 304 (4) Study of Teaching (includes classroom field placement)
- EDU 204 (4) Principles of Learning in Inclusive Classrooms (includes classroom field placement)
- RED 326 (4) Literacy Across the Curriculum (includes tutoring field experience)
- EDU 310 (3) The American School
- SED 340 Participation in the Professional Development School (Academy of Science Educators) (0). The Academy is made up of University faculty and staff, area teachers, and Education students. Through occasional meetings and through field experiences, members of these groups work together to improve professional development of pre-service teachers and the profession in general.
- Professional Portfolio. Each student begins to develop a professional portfolio during the semester immediately preceding candidacy student teaching. This portfolio describes accomplishments related to teaching, and is updated regularly. Students present their portfolios to their Academy 2-3 times during the program, and may use a revised version as part of their employment search.

Students who have earned a minimum 2.8 cumulative average, 2.8 in required education courses and a 2.8 in subject major courses; and who have successfully completed prerequisite education courses and the number of subject major courses required; who have shown appropriate professional behaviors in field placements and in courses; and who have participated in their Academy and had a successful presentation and review of their portfolio may enter the candidacy semester. All mandated NYS teacher workshops must also be completed prior to the conclusion of the degree program.

B. Candidacy semester (spring only – junior year). Students may also take other courses during this semester.

- SCE 413 Methods and Curriculum in Teaching Science (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Candidacy Student Teaching (3 credits) This first, shorter student teaching is at the 7-9 level or the 10-12 level, with the level of least interest usually chosen. A few early visits are followed by 6 weeks of classroom experience (generally consisting of two instructional periods and one planning period).

C. Standard Student Teaching Semester (fall only – senior year). Students are encouraged to restrict enrollment to the following 12 credits, but may take another evening course.

- EDU 508 Standard Student Teaching (9 credits). Full day for a minimum of 12 weeks, in grades 7-9 or grades 10-12 (whichever was not completed during Candidacy semester).
- SED 415 Teacher Development in Science (3 credits)