teaching labs, outreach programs or regional schools. In addition, students will design, implement, and present an action research project. This course is intended to be taken as a two-semester co-requisite of SCI 510 and SCI 520.

3 credits, Letter graded (A, A-, B+, etc.)

SCI 549: Science Field Experience I

This course requires teacher candidates to complete 50 hours of supervised field experience at various sites and with diverse learners, including: high needs schools, students with disabilities or special needs, English language learners, and diverse age groups. The field experience will involve: observing instruction by sponsoring teacher and other teachers using a structured observation protocol, assisting sponsoring teacher with class activities, tutoring students, planning curriculum and negotiating curriculum with students, assessing student knowledge, and preparing written assignments for the methods courses on the basis of the above activities.

1 credit, S/U grading

SCI 550: Science Field Experience II

This course requires teacher candidates to complete 50 hours of supervised field experience at various sites and with diverse learners, including: high needs schools, students with disabilities or special needs, English language learners, and diverse age groups. The field experience will involve: observing instruction by sponsoring teacher and other teachers using a structured observation protocol, assisting sponsoring teacher with class activities, tutoring students, planning curriculum and negotiating curriculum with students, assessing student knowledge, and preparing written assignments for the methods courses on the basis of the above activities. Prerequisite: Matriculation in Science Education Program, SCI 549, SCI 510.

3 credits, Letter graded (A, A-, B+, etc.)

SCI 551: Supervised Student Teaching High School Grades 10-12: Science

Prospective science teachers will participate in a supervised student teaching experience in selected Long Island secondary schools, grades 10-12. The student teacher reports to the school to which he/she is assigned each full school day. Frequent consultation with the supervising teacher helps the student interpret and evaluate the teaching experience. Applications must be filed in the semester preceding student teaching. Prerequisite: SCI 510, 520, 541, 542 CEE 505 and CEE 565; matriculation in degree (MAT, MS, Ph.D or MA/LS) program; 3.0 cumulative GPA; submission of portfolio and interview with and permission of Science Education Committee.

1 credit, S/U grading

SCI 552: Supervised Student Teaching Middle School Grades 7-9: Science

Prospective science teachers will participate in a supervised student teaching experience in selected Long Island secondary schools, grades 7-9. The student teacher reports to the school to which he/she is assigned each full school day. Frequent consultation with the supervising teacher helps the student interpret and evaluate the teaching experience. Applications must be filed in the semester preceding student teaching. Prerequisite: SCI 510, 520, 541, 542 CEE 505 and CEE 565; matriculation in degree (MAT, MS, Ph.D or MA/LS) program; 3.0 cumulative GPA; submission of portfolio and interview with and permission of Science Education Committee.

3 credits, S/U grading

SCI 554: Supervised Teaching of Science Seminar

This seminar, which will focus on problems encountered by student teachers and public school teachers at the secondary level, will include study and analysis of science teaching issues, including classroom management, school culture, and social issues affecting the schools and student performance. Prerequisite: SCI 510, 520, 541, 542 CEE 505 and CEE 565; submission of portfolio and interview with and permission of Science Education Committee.

1 credit, S/U grading