

Blind Brook-Rye UFSD
Science Research Program
UNIVERSITY IN THE HIGH SCHOOL PROGRAM
SUNY Albany

Juniors A Cas 109 Intermediate Science Research (2 credits) July – August

Students learn research methodology in the natural and social sciences by accessing scientific databases, by using on-line bibliographic search techniques, consulting doctoral-level research scholars, developing hypotheses and performing experiments to test them, and by writing research papers and making presentations at scientific symposia. It is expected that the students will have done many of these activities in the prerequisite high school course, and in this course emphasis is placed upon the formulation of hypotheses and initiation of experiments in consultation with mentors. Prerequisite(s): completion of one year of an approved course in science research at the high-school level; permission of instructor; may not be taken by students enrolled in college. Offered summer session only. Minimum 90 hours of laboratory hours required.

Juniors A Cas 110 Intermediate Methods of Research (4 credits) September – June

Students learn research methodology in the natural and social sciences by accessing scientific databases by using on-line bibliographic search techniques, consulting doctoral-level research scholars, developing hypotheses and performing experiments to test them, and writing research papers and making presentations at scientific symposia. It is expected that the students will have done many of these activities in the prerequisite high school course, and in this course emphasis is placed upon performing experiments in consultation with mentors. Students are expected to spend at least 3.5 hours per week outside of class on research project. Prerequisite(s): Completion of one year of an approved course in science research at the high-school level; permission of instructor; may not be taken by students enrolled in college; available for year-long course of study only.

Seniors A Cas 209 Advanced Science Research (2 credits) July – August

Continuation of work undertaken in A Cas 109 or equivalent with emphasis placed upon the completion of experiments in consultation with mentors. Students will consult with their teachers as necessary, but will not meet in a formal classroom period. Prerequisite(s): Satisfactory completion of A Cas 109 or completion of two years of an approved science research course at the high school level; permission of instructor; may not be taken by students enrolled in college; offered summer session only. Minimum 90 hours of laboratory hours required.

Seniors A Cas 210 Advanced Methods of Research (4 credits) September - June

Continuation of work undertaken in A Cas 110 or equivalent with emphasis placed upon the communication of results. Students are expected to spend at least 3.5 hours per week outside of class on research project. Prerequisite(s): Satisfactory completion of A Cas 110 or completion of two years of an approved science research course at the high school level; permission of instructor; may not be taken by students enrolled in college; students must be enrolled throughout an entire academic year to obtain credit.