

ROSLYN HIGH SCHOOL

DEPARTMENT: SCIENCE

NAME OF COURSE: LIVING ENVIRONMENT

GENERAL DESCRIPTION OF COURSE

This course is based on the New York State Regents Living Environment Curriculum. Students are expected to master a body of biological theory through laboratory experiments and other forms of study. Students will understand and apply scientific concepts, principles and theories pertaining to the living environment. They will recognize the historical development of scientific ideas. Student values are developed through discussion of environmental issues and current developments in genetics, molecular biology and other fields.

MAJOR TOPICS COVERED

- ❖ Scientific Method
- ❖ Life Functions
- ❖ Cell Theory and Cell Organelles
- ❖ Methods of Cell Study
- ❖ Chemistry of Living Organisms
- ❖ Maintenance in Living Organisms
 - Nutrition
 - Transport
 - Respiration
 - Excretion
 - Regulation
 - Locomotion
- ❖ Human Physiology
- ❖ Reproduction & Development
- ❖ Transmission of Traits from Generation to Generation
- ❖ Evolution
- ❖ Ecology

TEXTBOOKS

Biology, New York State: Kenneth R. Miller and Joseph Levine

REQUIREMENTS

A notebook must be maintained. In preparation for the Regents exam laboratory reports must be submitted as evidence of performing at least 1200 minutes of laboratory work. Each student is required to complete a minimum of two-thirds of the laboratory reports in a satisfactory manner in order to pass each quarter. Major tests and quizzes will be given for each unit. Homework will be assigned. A

midterm and a Regents examination are given. Adequate class participation is expected. Students are responsible for course work missed during an absence.

GRADING PROCEDURES

Grades are based on exams, quizzes, homework, laboratory reports and class participation. The midterm exam counts as 20% of the 2nd quarter. The Regents examination counts as 20% of the 4th quarter. The final grade will be based upon the student's 4 quarter grades.