

ROSLYN HIGH SCHOOL

DEPARTMENT: SCIENCE

NAME OF COURSE: LIVING ENVIRONMENT HONORS

GENERAL DESCRIPTION OF COURSE

Honors Living Environment is an enriched program in biology with emphasis on laboratory work and projects. Current information is stressed so that students can effectively interpret biological concepts, as well as information disseminated by mass media. Student values are developed through discussions of environmental issues, developments in genetic engineering, molecular biology, evolution and diseases such as AIDS. The majority of the fundamentals for the Achievement Test (SAT subject test in Biology) are taught. Advice on test taking strategies and practice questions are given.

MAJOR TOPICS COVERED

- ❖ Ecology
- ❖ Unity and Diversity Among Living Things-Cell & Classification
- ❖ Biochemistry
- ❖ Maintenance in Living Things- Animals
- ❖ Maintenance in Living Things- Plants
- ❖ Human Physiology
- ❖ Reproduction and Development
- ❖ Modern Genetics- DNA, Protein Synthesis
- ❖ Transmission of traits from Generation to Generation
- ❖ Evolution

TEXTBOOKS

Online Resources

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. Additional assignments may include research papers, essays, scientific journal articles or book reports. Several major tests are given each marking period. Announced or surprise quizzes will be given. Adequate class participation is expected. Homework will be assigned. Midterm and Regents examinations are given.

GRADING PROCEDURES

Laboratory reports and tests will count heavily. Major projects and laboratory skills are stressed. 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.