BIOLOGICAL  BS
SCIENCE

College of Natural Science

110  Organisms and Populations
Fall, Spring. 4(3-3) Not open to students with credit in LBS 144 or LBS 148H.

111  Cells and Molecules
Fall, Spring, Summer. 3(3-0) P:M: CEM 141 or CEM 151 or LBS 171 or CEM 181H Not open to students with credit in LBS 145 or LBS 149H.
Macromolecular synthesis; energy metabolism; molecular aspects of development; principles of genetics.

111L  Cell and Molecular Biology Laboratory
Fall, Spring, Summer. 2(1-3) Interdepartmental with Microbiology and Molecular Genetics and Plant Biology and Zoology. Administered by Biological Science. P:M: BS111 or concurrently Not open to students with credit in LBS 159H.
Principles and applications of common techniques used in cell and molecular biology.

148H  Honors Organismal Biology
Fall. 3(3-0) Interdepartmental with Lyman Briggs School. Administered by Biological Science. Not open to students with credit in BS 110 or LBS 144.
Diversity and basic properties of organisms, with emphasis on genetic principles, ecological interactions, and the evolutionary process. Historical approach to knowledge discovery.

149H  Honors Cell and Molecular Biology
Spring. 3(3-0) Interdepartmental with Lyman Briggs School. Administered by Biological Science. P:M: (CEM 141 or concurrently) or (CEM 151 or concurrently) or (CEM 181H or concurrently) or (LBS 171 or concurrently) Not open to students with credit in BS 111 or LBS 145.
Exploration of the physicochemical and molecular organization of cells as the unifying framework for genetics, evolution, and the social relevance of biology.

158H  Honors Organismal Biology Laboratory
Fall. 2(1-3) Interdepartmental with Lyman Briggs School. Administered by Biological Science. Not open to students with credit in BS 110 or LBS 144. C: BS 148H concurrently.
Basic procedures used by organismal biologists, including experimental design and statistical methods. Development and implementation of research projects to test hypotheses in genetics, ecology, and evolution.

159H  Honors Cell and Molecular Biology Laboratory
Spring. 2(1-3) Interdepartmental with Lyman Briggs School. Administered by Biological Science. Not open to students with credit in BS 111L or LBS 145. C: BS 149H concurrently.
Basic techniques of cellular and molecular biology including experimental design and hypothesis formulation. Student-initiated projects to test hypothesis-driven projects in biochemistry, molecular biology or genetics.