Biology Major at Stony Brook University

Mission:

To prepare students for careers or graduate work in the life sciences by providing a rigorous curriculum in biology, mathematics and the natural sciences that engages students in scientific inquiry and communication while increasing their appreciation of the value of teamwork.

Goals:

• To provide students with a solid foundation of knowledge in biology and related natural sciences.
• To engage students in scientific inquiry
• To provide students with the opportunity to specialize in different areas of biology
• To provide students with the opportunity to participate in student-driven experimental design and science communication
• To prepare students for careers and graduate work in the life science professions

Students who obtain a degree in Biology will be able to:

• explain the living world, from molecules to ecosystems, in terms of biological, chemical, and physical theories;
• clearly communicate scientific principles and experimental results, orally and in writing;
• use laboratory and field techniques pertaining to their area of specialization;
• use quantitative and empirical concepts to analyze scientific data, and reasoned argument to draw appropriate conclusions.
• critically evaluate current biology research in areas pertinent to human health, the living environment, and public policy.