

# BIOLOGY AB/ScB LAB REQUIREMENT

Both the Biology AB and ScB programs emphasize exposure to practical skills and experimental design through coursework in BIOL or NEUR which integrate hands-on laboratory or fieldwork components. All concentrators are required to take a minimum 3 courses with a laboratory or fieldwork component. Please note that lab courses in departments other than Biology or Neuroscience can NOT be used to satisfy this requirement.

A list of possible BIOL and NEUR course offerings which can be used to satisfy this requirement are listed below. Students should note that not all courses are offered every year and/or may have enrollment caps or other restrictions (e.g. semester standing). Courses that are unavailable in the current academic year but offered in **alternate years** have been italicized and noted. Courses @ Brown should be consulted for the most current course offerings and other detailed course information.

\* Please note that only ONE semester of course-based research via BIOL 1950/1960 or NEUR 1970 can be applied toward the laboratory requirement for Biology programs.

## **Fall Courses**

BIOL 0190R: Phage Hunters, Part I  
BIOL 0200: The Foundation of Living Systems  
BIOL 0220: Discovering Novel Protein Folding Phenotypes of Wild Yeast  
BIOL 0410: Invertebrate Zoology  
BIOL 0470: Genetics  
BIOL 0940D: Rhode Island Flora: Understanding and Documenting Local Plant Diversity  
BIOL 1310: Developmental Biology  
BIOL 1515: Conservation in the Genomics Age  
BIOL 1950\*: Directed Research/Independent Study  
CPSY 1195: Life Under Water in the Anthropocene  
NEUR 1440: Mechanisms and Meaning of Neural Dynamics  
BIOL/NEUR 1630: Big Data Neuroscience Lab  
BIOL/NEUR 1650: Structure of the Nervous System  
NEUR 1970\*:Independent Study

## **Wintersession**

BIOL 0940G: Antibiotic Drug Discovery: Identifying Novel Soil Microbes to Combat Antibiotic Resistance

## **Spring Courses**

BIOL 0100: Living Biology at Brown and Beyond  
BIOL 0150D: Techniques in Regenerative Medicine: Cells, Scaffolds, and Staining  
BIOL 0285: Inquiry in Biochemistry: From Gene to Protein Function  
BIOL 0430: Evolution of Plant Diversity  
BIOL 0440: Inquiry in Plant Biology: Analysis of Plant Growth, Reproduction and Adaptive Responses  
BIOL 0510: Introductory Microbiology  
BIOL 0610: Modeling Human Disease Using Stem Cells  
BIOL 0620: Fermentation to Publication: Experimental Food Microbiology  
BIOL 0800: Principles of Physiology  
BIOL 1040: Ultrastructure/Bioimaging  
BIOL 1150: Stem Cell Engineering  
BIOL 1960\*: Directed Research/Independent Study  
BIOL 1610/NEUR 1600: Experimental Neurobiology  
NEUR 1970\*: Independent Study

***\*Some courses might be inactive during the current academic year. Please refer to [Courses@Brown](#) and [BUE Course Offerings](#) for further references.***