

## **SAMPLE PROGRAMS OF STUDY**

The following programs of study for different research strengths in the Division of Biological Studies are intended as a guide for prospective graduate students. These programs of study are samples and should **not** be viewed as formal requirements in any of these areas. Students' programs of study are designed in consultation with their faculty mentor.

### **Program of Study: Neurobiology**

BIO\_SC 8050: Professional Survival Skills  
BIO\_SC 8060: Ethical Conduct of Research  
BIO\_SC 7580: Computational Neuroscience  
BIO\_SC 7986: Neurology of Motor Systems  
BIO\_SC 7976: Molecular Biology  
BIO\_SC 8002: Regeneration  
BIO\_SC 8002: Molecular Mechanisms of Neurological Diseases  
BIO\_SC 8330: Stem Cell Biology  
BIO\_SC 8442: Integrative Neuroscience II  
BIO\_SC 8440: Integrative Neuroscience I

### **Program of Study: Ecology**

BIO\_SC 8050: Professional Survival Skills  
BIO\_SC 8060: Ethical Conduct of Research  
Stat 7510 Applied Statistical Modeling I  
Stat 8220 Applied Statistical Modeling II  
BIO\_SC 8600: Experimental Design  
BIO\_SC 8700: Ecological Genetics  
BIO\_SC 8610: Current Concepts in Conservation Biology  
GEOG 7810: Landscape Ecology and GIS Analysis I  
F&W 7500: Animal Population Dynamics and Management  
FOREST 7320: Forest Ecology

### **Program of Study: Molecular and/or Cellular Biology**

BIO\_SC 8050: Professional Survival Skills  
BIO\_SC 8060: Ethical Conduct of Research  
BIO\_SC 7978: Cancer Biology  
BIO\_SC 8087: Seminar in Biological Sciences  
BIO\_SC 8310: Fungal Genetics & Biology  
INFOINST 7005: Bioinformatics  
MICROB 9432: Molecular Biology II

## **Program of Study: Plant Biology**

BIO\_SC 8050: Professional Survival Skills

BIO\_SC 8060: Ethical Conduct of Research

BIO\_SC 8300: Advanced Plant Genetics

BIO\_SC 7320: Plant Physiology

PLNT\_S 8362: Introduction to Plant Metabolism

BIO\_SC 8505: Introduction to Plant Stress Biology

BIOCHM 8365: Introduction to Molecular Cell Biology