

# BIOLOGICAL BASIS OF BEHAVIOR, BA

Biological Basis of Behavior is an interdisciplinary program in which students explore the relationship between behavior (both human and animal) and its organic bases. The Program offers courses in virtually all areas of neuroscience ranging from cellular neurobiology to cognitive neuropsychology and integrates these basic interdisciplinary courses with basic science requirements in biology, chemistry and psychology. Students also engaged in supervised research in areas as diverse as molecular neurobiology, chemical neuroanatomy, visual sciences and behavioral ecology.

The minimum total course units (<https://www.college.upenn.edu/credits-needed-major>) for graduation in this major is 36. Double majors may entail more course units.

**For more information:** <http://www.sas.upenn.edu/bbb/>

For information about the General Education requirements, please visit the College of Arts & Sciences Curriculum (<https://www.college.upenn.edu/curriculum>) page.

Code	Title	Course Units
<b>College General Education Requirements and Free Electives</b>		
Foundational Approaches + Sectors <sup>1</sup> + Free Electives		17.5
<b>Major Requirements</b>		
<i>Core Requirements</i>		
Introductory Chemistry:		
CHEM 101	General Chemistry I	1
CHEM 102	General Chemistry II	1
Introductory Biology:		
Select one of the following Options:		3
Option 1:		
BIOL 101	Introduction to Biology A	
BIOL 102	Introduction to Biology B	
Option 2:		
BIOL 121	Introduction to Biology - The Molecular Biology of Life	
BIOL 123	Introductory Molecular Biology Laboratory	
BIOL 124	Introductory Organismal Biology Lab	
200-Level BIOL Course		
Introduction to Brain & Behavior:		
Select one of the following:		1
BIBB 109	Introduction to Brain and Behavior	
BIOL 109	Introduction to Brain and Behavior	
PSYC 109	Introduction to Brain and Behavior	
Behavioral Neuroscience:		
Select one of the following 200-level BIBB courses:		1
BIBB 227	Physiology of Motivated Behaviors	
BIBB 233	Neuroethology	
BIBB 269	Autonomic Physiology	
Cognitive Neuroscience:		
Select one of the following 200-level BIBB courses:		1

BIBB 249	Cognitive Neuroscience	
BIBB 270	Drugs, Brain and Mind	
Neurobiology:		
BIBB 251	Molecular and Cellular Neurobiology	1.5
or BIOL 251	Molecular and Cellular Neurobiology	
Statistics:		
Select one of the following:		1
BIOL 446	Statistics for Biologists	
STAT 101	Introductory Business Statistics	
STAT 111	Introductory Statistics	
<i>Additional BBB Major Elective Courses</i>		
Students may pick any 8 courses from the approved electives for the BBB major <sup>2,3</sup>		8
Total Course Units		36

<sup>1</sup> You may count no more than one course toward both a Major and a Sector requirement. For Exceptions, check the Policy Statement (<http://www.college.upenn.edu/sectors-policy>).

<sup>2</sup> See the BBB web site for approved courses in areas of specialized study. Students are encouraged to take a research course or do sponsored research in their junior or senior year.

<sup>3</sup> BIBB 399 Independent Research, BIBB 499 Senior Honors Thesis or a 400-level BIBB course are three of the options.

## Honors Option

BIBB Honors Complete

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2018 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.