NEUROSCIENCES AND BEHAVIOR - CERTIFICATE

The neurosciences certificate program encourages undergraduate students interested in how the brain controls behavior to take courses in the basic sciences while providing the means to specialize in neuroscience.

Since this subdiscipline of the biological sciences spans a number of departments at the university (e.g., integrative physiology, psychology & neuroscience and MCD biology), students are encouraged to obtain greater academic breadth through interdepartmental course selection.

For more information, visit the Undergraduate Certificate in Neuroscience (https://www.colorado.edu/neuroscience/undergraduate-education/) website.

Requirements

To obtain the certificate, a student must satisfy the requirements of a major other than the NRSC major and the requirements of the neuroscience certificate and maintain an overall grade point average of 3.20 or better. All courses must be taken for a letter grade (no pass/fail).

Code	Title	Credit Hours		
Required Courses				
General Chemistry seq	uence with lab (or equivalent sequence)			
CHEM 1113 & CHEM 1114	General Chemistry 1 and Laboratory in General Chemistry 1	5		
CHEM 1133 & CHEM 1134	General Chemistry 2 and Laboratory in General Chemistry 2	5		
General Physics sequence with lab (or equivalent sequence)				
PHYS 2010 & PHYS 2020	General Physics 1 and General Physics 2	10		
Biology with lab		6		
Select one of the t biology courses):	wo options (or approved equivalent			
MCDB 1150 & MCDB 1152	Introduction to Cellular and Molecular Biology and Problem Solving Co-Seminar for Introduction to Molecular and Cellular Biology			
or MCDB 1161	From Dirt to DNA: Phage Genomics Laborator	y I		
or MCDB 1171	Antibiotics Discovery Through Hands-on Scre	ens l		
or MCDB 1181	Biological Probiotic/Drug Discovery Through Hands-on Screens			
EBIO 1210 & EBIO 1230	General Biology 1 and General Biology Laboratory 1			
Introduction to Neuroscience:				
NRSC 2125 & NRSC 2150	Introduction to Neuroscience I: Foundations and Introduction to Neuroscience II: Systems			
General Genetics		3		
Select one of the f	ollowing:			
EBIO 2070	Genetics: Molecules to Populations			

Total Credit Hours			43-44	
At least one additional upper - division Neuroscience/Behavior courses in IPHY, MCDB, PSYC or another department.				
Electives			3	
Or an approved equivalent statistics course				
	MATH 2510	Introduction to Statistics		
	EBIO 4410	Biological Statistics		
	EBIO 1010	Introduction to Statistics and Quantitative Thinking for Biologists		
	IPHY 3280	Intro to Data Science and Biostatistics		
	PSYC 2111	Psychological Science I: Statistics		
	Select one of the following:			
St	atistics		3-4	
	Or an approved equivalent general genetics course			
	IPHY 4200	Physiological Genetics and Genomics		
	MCDB 2150	Principles of Genetics		

For more information on this certificate and answers to frequently asked questions, see the Neuroscience Undergraduate Certificate (https://www.colorado.edu/neuroscience/undergraduate-education/) website or email Professor Serge Campeau (Serge.Campeau@Colorado.EDU), director of the program.