Concentration in Neuroscience

The Biology Department offers a Concentration within the Biology Major for students with interests in cell and molecular, systems, and behavioral aspects of the nervous system and its functionality. For more information regarding this particular concentration please inquire with one of the following faculty: Bloss, Brown, Cleland, Enke, Gabriele, Rife, Strong.

Students choosing a concentration in Neuroscience must meet all of the requirements for the Biology major, including the following additional requirements. Note: courses for this concentration can also satisfy Biology Major requirements.

1. Choose one of the following courses:  
   BIO 301 Introductory Neuroscience  
   BIO/PSYC 385 Biopsychology  
   Credits 3 3

2. Choose one of the following courses:  
   BIO/CSD 415 Neuroanatomy and Neurogenic Communication Disorders  
   BIO 445 Neurobiology  
   Credits 3 4

3. Neuroscience Concentration Electives  
   Choose three additional courses from the following list, of which at least one must be principally a neurobiology course (BIO/PSYC 375, BIO/CSD 415, BIO 445, or BIO 446).  
   BIO 316 Animal Development, with optional laboratory  
   BIO/PSYC 375 Sensation and Perception  
   BIO/CSD 415. Neuroanatomy and Neurogenic Communication Disorders  
   BIO 445. Neurobiology  
   BIO 446 Experimental Neurobiology  
   BIO 480 Advanced Molecular Biology  
   BIO 481 Genomics  
   BIO 482 Human Histology  
   Credits 3/4 3 3* 4* 4 4 4 4

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1 meets one of the Biology major requirements for a laboratory/field course

* BIO 445 and CSD 415: whichever course was not taken as part of required neuroscience concentration core may be used to fulfill elective requirements.

Additional credits must be earned at the 300/400 level to total 20 credit hours, including a course that fulfills the organismal diversity major requirement.

Students are strongly encouraged to discuss their career interests with an adviser who can help select courses best suited to their needs. With prior approval from the concentration coordinator, BIO 426 and/or BIO 427 may be substituted. It is recommended that students participate in independent research with a faculty mentor (BIO 497/499).