

Undergraduate Certificate in Neuroscience and Behavior - University of Colorado Boulder

The Neuroscience Undergraduate Certificate encourages students to take courses in basic science while providing a means to specialize in Neuroscience. Since this area of biological sciences is cross-disciplinary, interdepartmental course selection is possible and encouraged. Before participating in the undergraduate Neuroscience Certificate, a student must first declare a major in one of the participating departments (MCDB, Psychology, or Integrative Physiology, although other majors qualify). The students must satisfy the requirements of: 1) the parent department, 2) the Arts and Sciences core curriculum, and 3) the Neuroscience Certificate. The student then receives an undergraduate degree in their parent department with certification in Neuroscience. The awarding of the certificate appears as an official designation on your undergraduate transcript and a hard (mailed in) copy of the certificate.

General Physics with la
Molecular Biology with
(1) or similar courses]
Biological Psychology [I
prerequisites for upper

Table 1. Elective Courses in the Neurosciences and Related Fields

Integrative Physiology (IPHY)

- IPHY 3060 – Cellular Physiology (4)
- IPHY 3430 – Intro to Human Physiology (3)
- IPHY 3450 – Comparative Animal Physiology (3)
- IPHY 3470 – Human Physiology 1 (3)
- IPHY 3660 – Dynamics of Motor Learning (3)
- IPHY 4440 – Endocrinology (4)
- IPHY 4470 – Biology of Human Reproduction (3)
- IPHY 4480 – Comparative Reproduction (3)
- IPHY 4580 – Sleep Physiology (3)
- IPHY 4600 – Immunology (3)
- IPHY 4650 – Exercise Physiology (5)
- IPHY 4720 – Neurophysiology (4)
- IPHY 4730 – Integrative Motor Control (3)

Ecological & Evolutionary Biology (EBIO)

- EBIO 3240 – Animal Behavior (4)

Psychology & Neuroscience (PSYC/NRSC)

- NRSC 4015 – Affective Neuroscience
- NRSC 4032 – Neurobiology of Learning & Memory
- NRSC 4041 – Behavioral Neuroscience
- NRSC 4042 – Behavioral Neuroscience
- NRSC 4043 – Behavioral Neuroscience
- NRSC 4044 – Behavioral Neuroscience
- NRSC 4045 – Behavioral Neuroscience
- NRSC 4046 – Behavioral Neuroscience
- NRSC 4047 – Behavioral Neuroscience
- NRSC 4048 – Behavioral Neuroscience
- NRSC 4049 – Behavioral Neuroscience
- NRSC 4050 – Behavioral Neuroscience
- NRSC 4051 – Behavioral Neuroscience
- NRSC 4052 – Behavioral Neuroscience
- NRSC 4053 – Behavioral Neuroscience
- NRSC 4054 – Behavioral Neuroscience
- NRSC 4055 – Behavioral Neuroscience
- NRSC 4056 – Behavioral Neuroscience
- NRSC 4057 – Behavioral Neuroscience
- NRSC 4058 – Behavioral Neuroscience
- NRSC 4059 – Behavioral Neuroscience
- NRSC 4060 – Behavioral Neuroscience
- NRSC 4061 – Behavioral Neuroscience
- NRSC 4062 – Behavioral Neuroscience
- NRSC 4063 – Behavioral Neuroscience
- NRSC 4064 – Behavioral Neuroscience
- NRSC 4065 – Behavioral Neuroscience
- NRSC 4066 – Behavioral Neuroscience
- NRSC 4067 – Behavioral Neuroscience
- NRSC 4068 – Behavioral Neuroscience
- NRSC 4069 – Behavioral Neuroscience
- NRSC 4070 – Behavioral Neuroscience
- NRSC 4071 – Behavioral Neuroscience
- NRSC 4072 – Behavioral Neuroscience
- NRSC 4073 – Behavioral Neuroscience
- NRSC 4074 – Behavioral Neuroscience
- NRSC 4075 – Behavioral Neuroscience
- NRSC 4076 – Behavioral Neuroscience
- NRSC 4077 – Behavioral Neuroscience
- NRSC 4078 – Behavioral Neuroscience
- NRSC 4079 – Behavioral Neuroscience
- NRSC 4080 – Behavioral Neuroscience
- NRSC 4081 – Behavioral Neuroscience
- NRSC 4082 – Behavioral Neuroscience
- NRSC 4083 – Behavioral Neuroscience
- NRSC 4084 – Behavioral Neuroscience
- NRSC 4085 – Behavioral Neuroscience
- NRSC 4086 – Behavioral Neuroscience
- NRSC 4087 – Behavioral Neuroscience
- NRSC 4088 – Behavioral Neuroscience
- NRSC 4089 – Behavioral Neuroscience
- NRSC 4090 – Behavioral Neuroscience
- NRSC 4091 – Behavioral Neuroscience
- NRSC 4092 – Behavioral Neuroscience
- NRSC 4093 – Behavioral Neuroscience
- NRSC 4094 – Behavioral Neuroscience
- NRSC 4095 – Behavioral Neuroscience
- NRSC 4096 – Behavioral Neuroscience
- NRSC 4097 – Behavioral Neuroscience
- NRSC 4098 – Behavioral Neuroscience
- NRSC 4099 – Behavioral Neuroscience
- NRSC 4100 – Behavioral Neuroscience

Molecular, Cellular and Developmental Biology (MCDB)

- MCDB 3135 – Molecular Cell Biology 1 (3)
- MCDB 3145 – Molecular Cell Biology 2 (3)
- MCDB 3650 – The Brain: Molecules to Behavior (3)
- MCDB 3651 – Brain Dysfunction and Disease (3)
- MCDB 4100 – Neural Development and Disease (3)
- MCDB 4300 - Immunology
- MCDB 4426 – Cell Signaling and Developmental Regulation (3)
- MCDB 4427 – Biology of the Visual System (3)
- MCDB 4471 – Eukaryotic Gene Regulation (3)
- MCDB 4777 – Molecular Neurobiology (3)

Speech, Language, & Hearing Sciences(SLHS)

- SLHS 3106 – Hearing Science (3)
- SLHS 3116 – Speech Science (3)
- SLHS 4576 – Communication Neuroscience (3)