

# NEUROSCIENCE (NEURO)

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**Any experimental courses offered by NEURO can be found at:**

registrar.iastate.edu/faculty-staff/courses/explisting/ (<http://www.registrar.iastate.edu/faculty-staff/courses/explisting/>)

**Courses primarily for graduate students, open to qualified undergraduates:**

**NEURO 556: Cellular, Molecular and Developmental Neuroscience**

(Cross-listed with B M S, GDCB). (3-0) Cr. 3. Alt. F., offered odd-numbered years.

*Prereq: BIOL 335 or BIOL 436; physics recommended*

Fundamental principles of neuroscience including cellular and molecular neuroscience, nervous system development, and regulatory systems.

**NEURO 557: Rotations in Neuroscience**

(Cross-listed with GDCB). (2-0) Cr. 2. F.S.

Rotation experiences in various neuroscience research methods and techniques related to our current faculty specialties.

**NEURO 589: Systems Neuroscience: Brain, Behavior, and Nutrition-Related Integrative Physiology**

(Cross-listed with FS HN, GERON, NUTRS, PSYCH). Cr. 2. S.

*Prereq: Graduate standing, or undergraduate with consent of instructor.*

Structural, functional, and biochemical aspects of brain and non-motor behavior across the human lifespan. Types of neuroimaging used to assess the brain. Current research is leveraged to gauge how nutrition, diseases related to nutrition, and associated physiological processes influence the brain, particularly for common developmental, psychological, and neurological disorders.

**Courses for graduate students:**

**NEURO 661: Advanced Topics in Neuroscience**

(Cross-listed with BBMB, GDCB, KIN). (3-0) Cr. 3. Repeatable. Alt. S., offered even-numbered years.

*Prereq: NEURO 556 (or comparable course) or permission of instructor*

Students will present three journal articles and two overview lectures on topics in neuroscience that are related but outside of their own research interest.

**NEURO 696: Neuroscience Seminar**

(1-0) Cr. 1. Repeatable. F.S.

Seminar in neuroscience, current research interests, and/or professional development.

**NEURO 699: Research**

Cr. arr. Repeatable.