Goal 1: Students should understand core concepts, empirical findings and their interpretations in neuroscience.

1) Students should be able to identify core concepts, key research findings and their interpretations in neuroscience.

2) Students should be able to identify the broader implications of core research findings in neuroscience, based on their critical analysis of the literature.

Goal 2: Neuroscience is an interdisciplinary field. Students should understand core concepts from related fields and their relevance to neuroscience and synthesize information and knowledge across disciplines.

1) Students should be able to read, interpret, and critically evaluate literature from neuroscience-related fields, spanning from the cognitive/behavioral sciences to cellular/molecular biology.

2) Students should demonstrate the ability to describe a neuroscience-related topic at multiple levels of analysis, integrating information from multiple related disciplines.

Goal 3: Students should demonstrate an understanding of the scientific process in neuroscience, including methodologies, data analysis and interpretation and science communication, based on direct experience.

1) Students should experience hypothesis-driven scientific research first-hand either through coursework or independent research.

2) Students should demonstrate a basic understanding of experimental design and statistical analysis, and effectively present quantitative information.

3) Students should effectively communicate research orally and in writing.