## STUDENT LEARNING OUTCOMES (SLOs)
### Neuroscience Minor - Interdisciplinary

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| **SLO1:** Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical developments in neuroscience. | Seniors enrolled in the capstone seminar course BIOL/PSYC 447 will be assessed.  
**Measure 1.1:** At least 80% of neuroscience students will score 70% or higher on conceptual questions related to brain anatomy, cellular and molecular function of neurons and development of nervous systems. The target remains as for 2017-2018 since the goal was not reached; 70% (7 out of 10) of the students achieved 70% or higher on conceptual questions related to brain anatomy, cellular and molecular function of neurons and development of nervous systems.  
**Measure 1.2:** At least 80% of neuroscience students will score 80% or higher on conceptual questions related to sensory and motor systems, neural regulatory systems, functional neuroanatomy and behavioral/cognitive neuroscience. The target remains as for 2017-2018 since the goal was not reached; 70% (7 out of 10) of the students scored 80% or higher on conceptual questions related to sensory and motor systems, neural regulatory systems, functional neuroanatomy and behavioral/cognitive neuroscience. |
| **SLO2:** Students will demonstrate a familiarity of laboratory techniques used in neuroscience research. | METHOD: Students enrolled in the capstone seminar course, BIOL/PSYC 447, will read, discuss and present recent primary literature. Depth and accuracy of knowledge will be measured using a five question assessment on techniques used in neuroscience research. Students will be given the same assessment at the beginning (pretest) and end (post-test) of the course.  
**Measure 2.1:** At least 85% of the students to get a score of 100% on the post-test. Depth and accuracy of knowledge regarding the techniques used in neuroscience research will be measured using a five question assessment. Students will be given the same assessment at the beginning (pretest) and end (post-test) of the course. The target remains as for 2017-2018 since the goal was not reached; 70% (7 out of 10) of the students achieved 100% on the post-test.  
**Measure 2.2:** We expect all students (100%) that did not score a 5 (all correct) on the pretest to improve their scores on the post-test. Depth and accuracy of knowledge regarding the techniques used in neuroscience research will be measured using a five question assessment. Students will be given the same assessment at the beginning (pretest) and end (post-test) of the course. The target remains as for 2017-2018 since the goal was not reached; 75% (6 of 8) of the students improved on the post-test. |
| **SLO3:** Students will demonstrate accountability and credibility by communicating effectively in written form using a technical writing style appropriate for writing empirically-based papers in the neuroscience discipline. | METHOD: We will assess the written component from the BIOL/PSYC 448 course (Bachelor's Essay in Neuroscience). A grading rubric (attached) will be used to determine whether students are effectively communicating in written form in a manner in which neuroscientists may write empirical reports.  
**Measure 3.1:** Using the scoring rubrics, we expect 85% of the students to score 85% or higher on the assessment of their written component from the BIOL/PSYC 448 course (Bachelor's Essay in Neuroscience). A grading rubric (attached) will be used to determine whether students are effectively communicating in written form in a manner in which neuroscientists may write empirical reports. The target remains as for 2017-2018 since the goal was not reached; 70% (7 out of 10) students scored 85% or higher on the written part of Bachelor's Essay.  
**Measure 3.2:** At least 85% of neuroscience students will score 85% or higher on the oral presentation of their Bachelor's Essay in Neuroscience. A grading rubric (attached) will be used to determine whether students are effectively communicating during oral presentation. The target remains as for 2017-2018 since the goal was not reached; 60% (6 out of 10) students scored 85% or higher on the oral Bachelor's Essay presentation. |