Program Learning Outcomes

Program Name: Neuroscience

Date: 4/28/2020

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion	Courses Mapped to Outcomes				
	NSCI 211 Introduction to Neuroscience	NSCI 312 Neuroanatomy and Physiology	NSCI 335 Neurochemistry and Disease	PSY 340 Cognitive Psychology	NSCI 411 & 412 Advanced Research in Neuroscience
1 Fundamental Principles: Students will demonstrate an understanding of the fundamental principles that contribute to neuroscience and apply this knowledge in an integrative fashion to novel problems and questions in the field	I	R	R	R	
2 Disciplinary Perspective: Students will synthesize and differentiate among the various disciplines which contribute to the field of neuroscience	I			I	R
3 Primary Literature: Students will critically evaluate the primary neuroscience literature	I	R	R	R	M
4 Collaborative Scientific and Ethical Practices: Students will collaboratively contribute to new knowledge in the field of neuroscience through hypothesis development, experimental design, data collection, and data interpretation using ethical principles	I	R	R	R	M

5	Professional Communication: Students will create and deliver effective written, visual, and oral communication designed for both scientific and non-scientific audiences	I	R	R	R	M

Program Learning Outcomes: Assessment Tools

Program Name: Neuroscience   Date: 4/28/2020

Program Learning Outcomes Knowledge, skill, or behavior students can demonstrate upon program completion	Measurement Tool	Timeline/Frequency of Assessment	Target	Review
1 Fundamental Principles: Students will demonstrate an understanding of the fundamental principles that contribute to neuroscience and apply this knowledge in an integrative fashion to novel problems and questions in the field	Subset of cumulative multiple-choice final exam questions (NSCI 211)	Annually, beginning 2021	80% of NSCI students achieve at or above 80%	Results reviewed annually by faculty at pre-academic year meeting
2 Disciplinary Perspective: Students will synthesize and differentiate among the various disciplines which contribute to the field of neuroscience	Rubric evaluation of student essay reflection that influenced their project and their learning in the neuroscience program (NSCI 412)	2 Year Cycle beginning in 2021	80% of students achieve at or above "Adequate" on all 3 disciplinary perspectives included in the rubric	Results reviewed every 2 years by faculty at pre-academic year meeting
3 Primary Literature: Students will critically evaluate the primary neuroscience literature	Rubric applied to research article critiques (NSCI 411 & 412)	2 Year Cycle beginning in 2022	80% of students achieve at or above "Proficient"	Results reviewed every 2 years by faculty at pre-academic year meeting
	Rubric applied to a review paper of 15+ primary sources (NSCI 335)	2 Year Cycle beginning in 2021	80% of students achieve at or above "accomplished" for Content and Integration of Ideas	Results reviewed every 2 years by faculty at pre-academic year meeting
4 Collaborative Scientific and Ethical Practices: Students will collaboratively contribute to new knowledge in the field of neuroscience through hypothesis development, experimental design, data collection,	Rubric applied to individual research proposals assessing design, hypotheses, ethical practices, and response to feedback (NSCI 411)	2 Year Cycle beginning in 2023	80% of students achieve at or above "Proficient"	Results reviewed every 2 years by faculty at pre-academic year meeting

	and data interpretation utilizing ethical practices				
5	Professional Communication: Students will create and deliver effective written, visual, and oral communication designed for both scientific and non-scientific audiences	Rubric applied to poster creation and presentation (NSCI 412)	2 Year Cycle beginning in 2022	80% of poster elements at or above "accomplished"	Results reviewed every 2 years by faculty at pre-academic year meeting