Natural Sciences Elective Options (Rev. 09/17/19)

The courses listed below have been selected because they cover topics directly applicable to psychology. This is not true for all courses listed as NS on the course. Students may petition for a course not listed here, as long as the course in question addresses psychological concepts and/or research analysis related to the field. To petition, students must submit a copy of the course syllabus to psychologyDUS@duke.edu with the rationale for their request.

This list is updated periodically. Not every course is offered each semester; check the course schedule for current listings. Because additional NS courses in Psychology may count toward elective credits, courses cross-listed with Psychology are not listed here.

African and African American Studies (AAAS)							
Course # Course Title							
261D	Race, Genomics, and Society						
Biology (BIOLOGY)							
Course #	Course Title	Course #	Course Title				
154	AIDS & Other Emerging Diseases	322	From Neurons to Brain				
201L	Gateway to Biology: Molecular Biology	329D/L	Principles of Animal Physiology				
202L	Gateway to Biology: Genetics and Evolution	330L	Comparative and Functional Anatomy of the Vertebrates				
207	Organismal Evolution	372LA	Biochemistry of Marine Animals				
215L	Introduction to Modeling in Mathematical	373LA	Sensory Physiology and Behavior of Marine Animals				
	Biology	412S	Sensory Signal Transduction				
223	Cellular and Molecular Neurobiology	423S	Development of Neural Circuits				
250	Population Genetics	426S	Visual Processing				
255	Introduction to the Philosophy of Biology	427S	Current Topics in Sensory Biology				
261D	Race, Genomics, and Society	431S	Human Embryology: Reproductive Biology in the 21 st				
267D	Behavioral Ecology and the Evolution of	650	Century Molecular Population Constics				
211	Animal Behavior	650	Molecular Population Genetics				
311	Systems Biology: An Introduction for the						
Quantitative Sciences Biochemistry (BIOCHEM)							
Course #	Course Title	Course #	Course Title				
301	Introductory Biochemistry I: Intermediary	658	Structural Biochemistry I				
301	Metabolism	659	Structural Biochemistry II				
302	Introductory Biochemistry II						
		nedical Er	ngineering (BME)				
Course #	Course Title	Course #	Course Title				
244L	Quantitative Physiology with Biostatistical	504	Fundamentals of Electrical Stimulation of the				
	Applications		Nervous System				
253L	Biomedical Electronic Measurements I	511L	Intermediate Bioelectricity				
260L	Modeling Cellular and Molecular Systems	513	Nonlinear Dynamics in Electrophysiology				
271	Signals and Systems	515	Neural Prosthetic Systems				
307	Transport Phenomena in Biological Systems	527	Cell Mechanics and Mechanotransduction				
354L	Introduction to Medical Instrumentation	560	Molecular Basis of Membrane Transport				
502	Neural Signal Acquisition	566	Transport Phenomena in Cells and Organs				
503	Computational Neuroengineering	D: - C	FILDIO)				
Course #	Course Title	Biology (C	ELLDIUJ				
503	Introduction to Physiology						
JU3		ar Scianca	(COMPSCI)				
Course #	Course Title	Course #	(COMPSCI) Course Title				
101L	Introduction to Computer Science	516	Data-Intensive Computing Systems				
201	Data Structures and Algorithms	520	Numerical Analysis				
216	Everything Data	527	Introduction to Computer Vision				
220	Introduction to Numerical Methods and	528	Introduction to Computational Science				
•	Analysis	532	Design and Analysis of Algorithms				
224	Introduction to Computer Modeling	570	Artificial Intelligence				
230	Discrete Math for Computer Science	571D	Machine Learning				
260	Introduction to Computational Genomics	662	Computational Systems Biology				

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Cultural Anthropology (CULANTH)							
Course #	Course Title						
261D	Race, Genomics, and Society						
Evolutionary Anthropology (EVANTH)							
Course #	Course Title	Course#	Course Title				
101	Introduction to Evolutionary Anthropology	330L	Human Anatomy and Physiology				
101D	Introduction to Evolutionary Anthropology	333L	The Human Body				
212FS	Social Structures in an Evolutionary	341	Primate Sexuality				
220	Framework	341D	Primate Sexuality				
230	Bodies of Evidence: Introduction to Forensic	363S 546S	Evolution of Primate Social Cognition Primate Social Evolution				
246	Anthropology Sociobiology	560S	Primate Social Evolution Primate Cognition				
253	Primate Ecology	3003	Timate cognition				
285D	Human Health in Evolutionary Perspective						
		l Health (GLHLTH)				
Course #	Course Title	Course #	Course Title				
154	AIDS & Other Emerging Diseases	641	Non-Communicable Diseases in Low- & Middle-				
258D	Race, Genomics, and Society		Income Countries: Trends, Causes & Prevention				
362	Introduction to Epidemiology Focus on						
	Global Health						
Linguistics (LINGUIST)							
Course #	Course Title	Course #	Course Title				
115FS	Games and the Brain	216FS	Neuroscience and Human Language				
123FS	When the Head's in Trouble: Language,	216S	Neuroscience and Human Language				
24456	Lesions, and Loss	473AS	Neuroscience and Multilingualism				
211FS	The Neuroscience of Reading & Language	473S 501	Neuroscience and Multilingualism				
	Comprehension	nematics (Cognitive and Neurolinguistics				
Course #	Course Title	Course #	Course Title				
216	Linear Algebra and Differential Equations	353	Ordinary and Partial Differential Equations				
218	Matrices and Vector Spaces	403	Advanced Linear Algebra				
221	Linear Algebra and Applications	573S	Modeling of Biological Systems				
	Neurob	iology (NI	EUROBIO)				
Course #	Course Title	07 (·				
559	The Biological Basis of Music						
	Neuros	cience (N	EUROSCI)				
Course #	Course Title	Course #	Course Title				
111FS	The Neuroscience of Reading & Language	322	From Neurons to Brain				
	Comprehension	350	Pharmacology: Drug Actions and Reactions				
116FS	Neuroscience and Human Language	381LA	Sensory Physiology and Behavior of Marine Animals				
116S	Neuroscience and Human Language	385L	Integrative Neuroscience Laboratory				
123FS	When the Head's in Trouble: Language,	423S	Development of Neural Circuits				
15756	Lesions and Loss	426S	Visual Processing				
157FS 202	Games and the Brain Medical Neuroscience	427S 438AS	Current Topics in Sensory Biology Neuroscience & Multilingualism				
202	Cell and Molecular Neurobiology	436A3 439S	Neuroscience & Multilingualism				
242A	The Creative Brain: Literature, Arts, &	501S	Cognitive and Neurolinguistics				
2 12/1	Cognition	3013	cognitive and rearoning assess				
245A	Cultured Brain: Neuroscience of Perception						
	and Action						
Physical Education (PHYSEDU)							
Course #	Course Title	Course#	Course Title				
203	Diet and Nutrition	206	Exercise Physiology				
	Pharmacology (PHARM)						
Course #	Course Title	Course #	Course Title				

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350	Pharmacology: Drug Actions and Reactions	370	Pharmacogenomics and Personalized Medicine				
	Psychology (PSY)						
Any NS course in Psychology							
Public Policy (PUBPOL)							
Course #	Course Title	Course #	Course Title				
241	Multi-Method Approaches to Social and Policy Research	348	Science and Policy of Obesity				
Romance Studies (ROMST)							
Course #	Course Title						
242A	The Creative Brain: Literature, Arts & Cognition						
Sociology (SOCIOL)							
Course #	Course Title	Course #	Course Title				
332	Methods of Social Research	333	Quantitative Analysis of Sociological Data				
Statistical Science (STA)							
Course #	Course Title	Course #	Course Title				
101	Data Analysis and Statistical Inference	322	Design of Surveys and Causal Studies				
102	Introductory Biostatistics	323	Statistical Computing				
199L	Introduction to Data Science	340	Introduction to Statistical Decision Analysis				
111	Probability and Statistical Inference	360	Bayesian Inference and Modern Statistical				
130	Probability and Statistics in Engineering		Methods				
210	Regression Analysis	471S	Computational Data Analysis				
230	Probability	611	Introduction to Mathematical Statistics				
250D	Statistics	622	Statistical Data Mining				
320	Design and Analysis of Causal Studies	623	Statistical Decision Theory				
321	Design and Analysis of Surveys						