## Quantitative Studies and Natural Science Electives (Rev. Fall 2021)

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 <a href="mailto:psychologyDUS@duke.edu">psychologyDUS@duke.edu</a> 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.

201L Gateway to Biology: Molecular Biology 311 Systems Biology: An Introduction for the Qui Sciences Sciences Corpanismal Evolution 322 From Neurons to Brain 71he Ecology of Human Health 329D/L Principles of Animal Physiology 212 General Microbiology 330L Comparative and Functional Anatomy of the Biology 4275 Current Topics in Sensory Biology 4275 Current Topics in Sensory Biology 215L Introduction to Modeling in Mathematical 412S Sensory Signal Transduction Biology 4275 Current Topics in Sensory Biology 4275 Current Topics in Sensory Biology Epopulation Genetics Century Molecular Neurobiology 431S Human Embryology: Reproductive Biology in Century Molecular Population Genetics Century Molecular Population Genetics Sensory Biology: Race, Genomics, and Society Biochemistry (BIOCHEM)  Course # Course Title Course # Course Title Structural Biochemistry I Introductory Biochemistry II Introductory Biochemistry II  Biomedical Engineering (BME)  Course # Course Title Course # Course Title Course # Course Title Signals and Systems Sinal Modeling Cellular and Molecular Systems Sinal Nonlinear Dynamics in Electrophysiology Nonlinear Dynamics in Electrophysiology Nourilead Pransport Phenomena in Biological Systems Sinal Nonlinear Dynamics in Electrophysiology Nourilead Pransport Phenomena in Biological Systems Sinal Nonlinear Dynamics in Electrophysiology Neural Prosthetic Systems Sinal Neural Prosthetic Systems Cell Mechanics and Mechanotransduction Neural Signal Acquisition Signal Acquisition Sinal Neural Prosthetic Systems Transport Phenomena in Cells and Organs Computational Neuroengineering Signal Acquisition Sinal Neural Prosthetic Systems		African and Afric	can Americ	can Studies (AAAS)			
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Cultural Anthropology (CULANTH)  Course # Course Title			thropolog	y (CULANTH)			

261D

Race, Genomics, and Society

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103 Computational Methods in Engineering

Evolutionary Anthropology (EVANTH)							
Course #	Course Title	Course#	Course Title				
101/D	Introduction to Evolutionary Anthropology	285D	Human Health in Evolutionary Perspective				
212FS	Social Structures in an Evolutionary	330L	Human Anatomy and Physiology				
230	Framework  Bodies of Evidence: Introduction to Forensic	333L 341/D	The Human Body Primate Sexuality				
230	Anthropology	363S	Evolution of Primate Social Cognition				
246	Sociobiology	546S	Primate Social Evolution				
253	Primate Ecology	560S	Primate Cognition				
	Globa	l Health (0	SI HITH)				
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						
		istics (LIN					
Course #	Course Title Games and the Brain	Course #	Course Title				
115FS 123FS	When the Head's in Trouble: Language,	216S/FS 473S/AS	Neuroscience and Human Language Neuroscience and Multilingualism				
12313	Lesions, and Loss	501	Cognitive and Neurolinguistics				
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		nematics (	•				
Course # 216/D	Course Title	Course # 353	Course Title Ordinary and Partial Differential Equations				
218/1/2	Linear Algebra and Differential Equations  Matrices and Vector Spaces	403	Ordinary and Partial Differential Equations Advanced Linear Algebra				
221	Linear Algebra and Applications	573S	Modeling of Biological Systems				
342D	Statistics		<i>5 7</i>				
	Neurob	iology (NE	EUROBIO)				
Course #	Course Title						
559	The Biological Basis of Music						
	Neuros	cience (N	EUROSCI)				
Course #	Course Title	Course #	Course Title				
116S/FS	Neuroscience and Human Language	322	From Neurons to Brain				
123FS	When the Head's in Trouble: Language,	350	Pharmacology: Drug Actions and Reactions				
157FS	Lesions and Loss Games and the Brain	381LA 385L	Sensory Physiology and Behavior of Marine Animals				
202	Medical Neuroscience	427S	Integrative Neuroscience Laboratory Current Topics in Sensory Biology				
223	Cell and Molecular Neurobiology	438AS	Neuroscience & Multilingualism				
242A	The Creative Brain: Literature, Arts, &	4395	Neuroscience & Multilingualism				
	Cognition	501S	Cognitive and Neurolinguistics				
245A	Cultured Brain: Neuroscience of Perception	595	Language, Music and Dementia: Neuroscience				
	and Action		Approaches				
Pharmacology (PHARM)							
Course # 350	Course Title Pharmacology: Drug Actions and Reactions	Course# 370	Course Title Pharmacogenomics and Personalized Medicine				
330			-				
Physical Education (PHYSEDU)							
Course # 203	Course Title Diet and Nutrition	Course # 206	Course Title Exercise Physiology				
203							
Psychology (PSY)							
Any NS course in Psychology							
Public Policy (PUBPOL)							

Course #	Course Title	Course #	Course Title				
241	Multi-Method Approaches to Social and	348	Science and Policy of Obesity				
	Policy Research						
Romance Studies (ROMST)							
Course #	Course Title						
242A	The Creative Brain: Literature, Arts & Cognition						
Science & Society (SCISOC)							
258D	8D Race, Genomics, and Society						
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/L	Data Analysis and Statistical Inference	322	Design of Surveys and Causal Studies				
102/L	Introductory Biostatistics	323D	Statistical Computing				
111/L	Probability and Statistical Inference	340	Introduction to Statistical Decision Analysis				
130L	Probability and Statistics in Engineering	360/L	Bayesian Inference and Modern Statistical				
198L	Introduction to Health Data Science		Methods				
199L	Introduction to Data Science and Statistical	432	Theory and Methods of Statistical Learning and Inference				
	Thinking	611	Introduction to Mathematical Statistics				
210L	Regression Analysis	622	Statistical Data Mining				
230	Probability	623	Statistical Decision Theory				
250D	Statistics						
Visual Media Studies (VMS)							
Course #	Course Title						

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