

Behavioral and Biological Sciences (BBS) Curriculum Matrix

[GENETICS & BEHAVIOR] Explain how molecular and genetic processes contribute to behavior.

[EXPERIENCE & BEHAVIOR] Explain how environmental and socio-cognitive experiences contribute to behavior.

[TREATMENT] Describe the causes or possible causes of behavioral disease or illness, and provide scientific rationale for the pharmacological and socio-cognitive treatment of illness and disease.

[COMMUNICATION] Clearly communicate in spoken and/or written formats scientific principles and findings in biology and behavioral science.

[STATISTICS] Apply statistical methods to scientific data analysis and interpretation of experimental results.

[RESEARCH METHODS] Design biological and behavioral studies.

[ETHICS] Understand professional and ethical responsibilities.

		Genetics & Behavior	Experience & Behavior	Treatment	Communication	Statistics	Research Methods	Ethics
Prerequisites	PSYC 101 Intro Psych	2	2	2	1	1	1	2
	BIOL 130 Intro Organ & Env Bio	2	1	1	2	1	1	2
	BIOL 140 Intro Molecular & Cell Bio	2	1	2	2	1	2	2
	CHEM 134 General Chemistry IA	1	1	1	2	1	2	1

	CHEM 136 General Chemistry IA	1	1	1	2	1	2	1
	CHEM 225 Organic Chemistry I	1	1	1	2	1	2	1
	CHEM 226 Organic Chemistry II	1	1	1	2	1	2	1
Biochemistry	BCHM 370 Biochemistry 1	3	1	3	2	1	2	2
	BCHM 470 Biochemistry I	3	1	3	2	1	2	2
	BCHM 471 Biochemistry II	3	1	3	2	1	2	2
Genetics	BIOL 301 Cell Biology	3	1	2	3	2	3	2
	BIOL 306 General Genetics	3	2	2	2	2	2	2
	BIOL 474 Molecular Biology	3	1	2	3	2	2	2
Neuroscience	BIOL 350 Intro Neurobiology	2	3	3	3	2	2	2
	PSYC 400 Cognitive Neuroscience	1	3	1	2	1	2	1
	BBS 400 Cognitive Neuroscience Lab	1	1	1	2	1	3	1
Biology, Evolution & Animal Behavior	ANTH 331 Human Evolution	2	3	2	3	1	1	1
	ANTH 340 Beyond Race: Understanding Human Variation	3	2	2	3	2	1	2
	ANTH 409 Dev Origins Health & Disease	2	3	3	3	1	1	2
	ANTH 430 Medical Anthropology	1	3	3	2	1	1	3
	BIOL 353 Ornithology	2	2	1	2	1	2	1
	BIOL 360 Population Genetics & Evolution	2	2	1	2	1	2	1
	BIOL 419 Behavior and Evolution	3	3	2	3	1	2	2

	BIOL 456 Behavioral Biology	2	3	1	3	1	1	1
	PSYC 372 Animal Behavior	2	3	1	3	1	1	1
	PSYC 474 Animal Intelligence	2	3	1	3	1	1	1
	PSYC 488 Primate Field Course	1	3	1	3	2	3	3
Biopsychology	PSYC 370 Physiological Psychology	3	2	1	1	1	2	2
	BIOL 357 Human Physiology	3	2	1	1	1	2	2
Cognition	PSYC 363 Cognitive Psychology	1	3	1	2	1	2	1
	PSYC 375 Psychology of Language	1	3	1	2	1	2	1
	PSYC 400 Cognitive Neuroscience	1	3	1	2	1	2	1
	PSYC 461 Learning and Memory	1	3	1	2	1	2	1
	PSYC 463 Sensation & Perception	1	2	1	1	1	2	1
	PSYC 464 Applied Cognitive Psychology	1	2	1	1	2	2	2
Health Psych	ANTH 415 Nutrition and Health	2	3	3	3	1	1	2
	BIOL 380 Epidemiology	3	3	3	3	1	2	3
	HPS 412 Epidemiology	3	3	3	3	1	2	3
	PSYC 455 Health Psychology	2	3	3	3	1	2	3
Statistics	PSYC 381 Prin of Stats & Experimental Design	1	1	1	1	3	3	1
	STAT 301 Biostatistics	1	1	1	1	3	3	1
Experimental Design	PSYC 465 Experimental Psychology	1	1	1	3	3	3	3

Ethics	BBS 451 Ethics in Research	1	2	1	3	1	2	3
	HHS/PHIL 442 Medical Ethics	1	2	1	3	1	2	3
Capstone	BBS 490 Capstone	2-3	2-3	2-3	3	2-3	3	3
	BBS/BIOL 402 Phys Excitable Cells	2	3	3	3	2	3	3
	BIOL 480 Brain Disorders	2	3	3	3	2	3	3