

“Interdisciplinary List of Courses”

Major: [BS in Psychological & Brain Sciences](#)

Major Sheet Area: Upper Division #4, Option C

Units Applied to Major: Up to 8 units, no more than.

Please note: Enrollment for these courses are managed by GOLD.

The following courses are *not* hosted by the Dept. of PBS. Even though these courses are accepted/applied to “our” PBS BS major, they are *not* considered part of the “PSY” catalog. PBS advisors are only authorized to address “PSY” classes and have no authority over other departments cataloged course.

For information on these courses, please use the [UCSB General Catalog](#).

[Why Can't I Add a Class on GOLD?](#)

Remember, each department's enrollment procedures differ; PBS BS students *may or may not* have Pass 1 & 2 priority to another departments courses (use the link above for a guide on GOLD to decipher what may be blocking you to add). Please be respectful (*and patient*) as it is possible a PBS BS student may have to wait until Pass 3 for enrollment in these classes from other departments (providing space, and pre-reqs are met by the PBS BS student).

Should questions arise that GOLD cannot address, please refer to the sponsoring department/advisor for information/help.

ANTH 121. Human Evolution

(4) STAFF

Prerequisite: Anthropology 5.

The nature and results of the evolutionary processes responsible for the formation and differentiation of human populations.

ANTH 121T. Genetics, Natural Selection, and Human Evolution

(4) TOOBY

Prerequisite: Upper-division standing.

An introduction to the nature and role of genes in evolution, in natural selection, in sexual reproduction, in cellular regulation, in human development, in structuring universal human adaptive design, and in creating individual and intergroup similarities and differences.

ANTH 151T. Evolutionary Psychology

(4) GAULIN, TOOBY

Prerequisite: Anthropology 5 or Psychology 1.

Surveys evolutionary psychology, examining traditional psychological topics through Darwinian lenses. Traditional psychology answers mechanistic questions about how perception, emotion, cognition, development and social interactions work. Evolutionary psychology addresses the complementary functional question of why they work the way they do.

ANTH 153S. The Evolution of Human Sexuality

(4) STAFF

Prerequisite: Anthropology 5

Recommended Preparation: Anthropology 7.

Exploration of the psychological mechanism--adaptations--that underpin human sexual feeling, thought, and action. Emphasis on male-female differences, "engineering" analyses, the comparative method as sources of information about adaptive design. Includes study of sexual arousal, attractiveness, jealousy, and competition.

ANTH 169. Evolution of Cooperation

(4) GURVEN

Prerequisite: Anthropology 5 or 7.

Interdisciplinary focus on the emergence and maintenance of cooperation in human populations. Are we unique in our abilities to reap gains from cooperative endeavors? Why are some people generous, others stingy? How do propensities, personalities, ecology, and cultural institutions affect success in cooperation?

ANTH 177AB. Human Reproduction Ecology and Endocrinology

(4) BLACKWELL

Prerequisite: Upper-division standing

Recommended Preparation: Anthropology 5 or 7

Regulation of reproductive function by diet, energy balance, lactation, and social context. The role of hormones in the regulation of human reproduction, behavior, and physiology. Hormonal changes with parenting and pregnancy in men and women.

ANTH 192AB. Developmental Plasticity and Evolution

(4) BLACKWELL

Prerequisite: Anthropology 5 or 7 with a minimum grade of C or Ecology Evolution and Marine Biology (EEMB) 2 with a minimum grade of C.

Recommended Preparation: Preparation in evolution and basic biology.

Explores how organisms develop differently in different environments; how developmental plasticity facilitates evolution; adaptive landscapes; genetic accommodation of phenotypic variation; reaction norms; variation and flexibility in immune function, growth, behavior. Emphasis on humans but with examples and applicability to other species.

CCSP 114. Psychology of Gender

(4) ISRAEL

Recommended Preparation: Consent of instructor.

Provides an overview of psychological theory and research related to gender issues. Topics include bias in psychology, gender socialization, communication styles, lifespan development, ethnicity, education, careers, relationships, violence and victimization, health and mental health.

EEMB 129. Introductory Genetics

(4) HODGES

Prerequisite: MCDB 1A, and EEMB 2 and MCDB 1B, and EEMB 3 with a grade of C or better.

Enrollment Comments: Not open for credit to students who have completed Biology 130A-B or MCDB 101A-B.

Introduction to genetics. Mendel's laws, structure, replication and expression of DNA, linkage and chromosomal aberrations, mutation and recombination, concepts of genetic variability, quantitative and population genetics.

EEMB 131. Principles of Evolution

(4) SWEET

Prerequisite: MCDB 1A; and EEMB 2 and MCDB 1B, or Geology 2 and 3, or EARTH 2 and 3; Completion of all listed prerequisites with a grade of C- or better.

Enrollment Comments: Same course as EARTH 121. Not open for credit to students who have completed Biology 131.

A foundation course concerning the mechanisms of evolution at micro- and macroevolutionary levels, and interpretation of the resulting patterns of adaptation and organic diversity.

EEMB 154. Integrative Physiology

(4) SUAREZ

Prerequisite: MCDB 1A, and EEMB 2 and MCDB 1B, and EEMB 3; and, Chemistry 109A-B; Completion of all listed prerequisites with a grade of C- or better.

Recommended Preparation: EEMB 157 strongly recommended.

Enrollment Comments: Not open for credit to students who have completed Zoology 153A.

A rigorous introduction to how animals function, integrating information and concepts appropriate to the understanding of physiological processes from the level of molecules to whole organisms.

EEMB 157. Cell Physiology

(4) SUAREZ

Prerequisite: MCDB 1A, and EEMB 2 and MCDB 1B, and EEMB 3; Completion of all listed prerequisites with a grade of C- or better.

An analysis of processes fundamental to the functioning of cells, using actual examples from the protista. These processes include, but are not limited to, membrane structure and function, motility, metabolite transport, protein trafficking, energy acquisition and utilization.

EEMB 180. Evolutionary theory and models of behavioral processes

(5) PROULX

Prerequisite: MCDB 1A-B; EEMB 2-3; Math 3A-B or Math 34A-B; C- or better in all listed prerequisites.

Recommended Preparation: EEMB 129 or EEMB 101

A mathematical approach to understanding the process of evolutionary change with an emphasis on behavioral strategies starting with natural selection, frequency dependent selection, sex ratio, and selection for local adaptation. Using an evolutionary framework, the consequences of behavioral strategies will be studied, including foraging strategies, mating behavior, and social behavior.

ENV S 106. Critical Thinking About Human-Environment Problems and Solutions

(4) PULVER

Prerequisite: Environmental Studies 1 and 3 and upper-division standing.

Recommended Preparation: Environmental Studies 2 and Writing 2, 2E or 2LK.

Enrollment Comments: Quarters usually offered: Fall.

Training in critical thinking about human behavior and environmental problems. Focus on evidence-based evaluation of the effectiveness of various strategies used to promote change in how humans interact with the environment. Examine key techniques of different environmental solution strategies.

GEOG 153A. Behavioral Geography

(4) MONTELLO

Prerequisite: Geography 5

Examines aspects of the human-environment interface, emphasizing behavioral processes in spatial contexts including spatial choice and decision making, consumer behavior, migration and other episodic movements, time budgets, spatial cognition, cognitive mapping.

GEOG 153B. Introduction to Spatial Decision Making and Behavior

(4) STAFF

Prerequisite: Geography 5.

Gateway for the spatial decision making and behavior field. Includes environmental cognition; consumer spatial behavior; migration; space-time budgeting; destination and mode choice; risk and hazard perception; spatial preference. Laboratory sessions involve locational and city management simulation games.

GEOG 153C. Environmental Perception and Cognition

(4) MONTELLO

Prerequisite: Geography 5.

Research and theory on human perception and cognition of environments. Topics include spatial perception, spatial learning, knowledge structures, navigation and wayfinding, language and spatial cognition, map use, the spatial skills of special populations, and other issues.

LING 127. Psychology of Language

(4) GRIES, MOSCOSO DEL PRADO

Prerequisite: Linguistics 20

An examination of the psychological foundations of language structure and use, including the cognitive processes involved in the comprehension, production, and recall of words, sentences, and discourse; first and second language acquisition; relationships among language, brain, cognition, and culture.

LING 137. Introduction to First Language Acquisition

(4) CLANCY, GRIES

Prerequisite: Linguistics 20.

Enrollment Comments: Concurrently offered with Linguistics 237.

An introduction to the interdisciplinary enterprise of understanding first language acquisition, overview of different theoretical and methodological approaches, and introduction to developmental processes in sub-areas such as phonology, morphology, lexicon, syntax and semantics.

LING 149. Intercultural Communication

(4) CURTIN

Prerequisite: Any Linguistics or Communications course or consent of instructor.

Explores communication (verbal, nonverbal, mediated) between people from different cultural backgrounds. Topics include intersecting identities (national/regional, race/ethnicity, linguistic, gender, sexual orientation, etc.), intercultural relationships, cultural transitions, and intercultural conflict and dialogue. Integrates insights from social scientific, interpretive, and critical research.

LING 185. Animal Communication

(4) MOSCOSO DEL PRADO

The course will cover the basic terminology on animal communication signals. Special stress will be placed on the cost of signaling, and on the factors driving the biological evolution of communication. Finally, animal communication will be contrasted with human language.

PHIL 124A. Philosophy of Science

(4) STAFF

Prerequisite: A prior course in philosophy.

Recommended Preparation: A strong background in science.

Enrollment Comments: May be repeated for credit up to 8 units with consent of instructor.

What is science? How does it differ from non-science? Course examines both the history of science and the history of philosophy of science in an effort to discover just what science is and what it has to offer.

PHIL 134. Moral Psychology

(4) ZIMMERMAN

Prerequisite: Philosophy 4 or 100A; and, Philosophy 100B or 100C or 100D or 100E.

An examination of the nature of desires, emotions, the imagination and other aspects of human psychology, and of the ways these bear on the moral evaluation of people and actions.

PHIL 180. Philosophical Psychology

(4) HANSER

Prerequisite: One prior upper-division course in philosophy.

Enrollment Comments: May be repeated for credit to a maximum of 8 units.

An examination of some of the concepts of the mind such as those of desire, intention, action, perception, sensation, and the unconscious.

SOC 148. Social Networks

(4) FRIEDKIN

Prerequisite: Upper-division standing.

Social structure as derived from patterns of micro-relation (networks of people) and macro-relations (networks of organizations, interest groups, nations, or other collectivities); consequences of network relationships for social behavior and the distribution of resources, information, power, beliefs, and social support.

RGST 156BE. Bio-Medical Ethics

(4) STAFF

Prerequisite: Upper-division standing

Moral, social, and legal questions surrounding the practice of medicine and related sciences. Topics may include patient's rights, ethical duties of doctors, stem cell research, end of life care, and physician assisted suicide.

RGST 172. Evolutionary and Cognitive Science of Religion

(4) TAVES

Prerequisite: Psychology 1 and one course in Religious Studies

An introduction to evolutionary and cognitive science approaches to the study of religion.