

Psychological Sciences

[PSYC 6312](#) ([ACN 6312](#) and [HCS 6312](#)) Research Methods in Behavioral and Brain Sciences - Part I (3 semester credit hours) This course focuses on applying, understanding, and interpreting various statistical techniques in a behavioral science context. Students learn the framework for hypothesis testing, basic descriptive (e.g., measures of central tendency, variability and shape) and inferential (e.g., z, t, correlation, ordinary least squares regression, and ANOVA) statistics. The course provides students with an understanding of the interrelationships among statistical techniques, and computer skills required for data analyses. Students without the necessary background knowledge of basic statistics and experimental design will be required to take [PSY 3392](#) before registering for [ACN 6312](#). Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6313](#) ([ACN 6313](#) and [HCS 6313](#)) Research Methods in Behavioral and Brain Sciences - Part II (3 semester credit hours) Topics in general linear modeling including regression analysis correlation, simple analysis of variance, factorial analysis of variance, analysis of covariance, between and within subject designs, and multiple regression. Prerequisites: ([ACN 6312](#) or [HCS 6312](#) or [PSYC 6312](#)) and department consent required. (3-0) Y

[PSYC 6316](#) ([ACN 6316](#) and [HCS 6316](#)) Research Methods in Behavioral and Brain Sciences - Part III (3 semester credit hours) Applying, understanding, and interpreting various advanced multivariate statistical techniques in brain and behavioral science contexts. Includes principal component analyses, simple and multiple correspondence analyses, partial least square methods, multi-table analyses, discriminant analyses, and structural equation modeling. May be repeated for credit (6 semester credit hours maximum). Prerequisite: BBSC majors only. (3-0) R

[PSYC 6320](#) ([HCS 6359](#) and [HDCD 6320](#)) The Developing Child: Toddler and Preschool Years (Two to Five Years) (3 semester credit hours) Relevant developmental theories and processes as well as skills acquired in motor, sensory-perceptual, cognitive, and social domains. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6327](#) ([HCS 6327](#)) Personality (3 semester credit hours) Survey of trait, biological, and social-cognitive, analytic, and learning theory approaches to the study of personality. Emphasis on intensive exploration of modern theoretical and empirical work. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6330](#) ([ACN 6330](#) and [HCS 6330](#)) Cognitive Science (3 semester credit hours) Cognitive, computational, and neural processing approaches to understanding perception, memory, thought, language, and emotion. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6331](#) ([ACN 6331](#) and [HCS 6331](#)) Cognitive Development (3 semester credit hours) Survey of cognitive development theories and research in a variety of domains including perception, memory, language, and problem solving. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6332](#) ([ACN 6332](#) and [HCS 6332](#)) Perception (3 semester credit hours) Psychophysical, neurophysiological, and computational foundations of sensation and perception. Basic senses of vision, audition, chemoreception, and tactile processing, with emphasis on understanding the processes that take us from neurons to perception and action. Prerequisites: BBSC majors only and department consent required. (3-0) R

[PSYC 6333](#) ([ACN 6333](#) and [HCS 6333](#)) Memory (3 semester credit hours) Research and theory on the acquisition, representation, and retrieval of information by the mind/brain. Includes information processing and neuropsychological perspectives. Prerequisites: BBSC majors only and department consent required. (3-0) R

[PSYC 6335](#) ([HCS 7376](#) and [HDCD 6385](#)) Child Psychopathology (3 semester credit hours) Major classes of childhood psychopathology manifested during infancy through adolescence. Normal personality development as a basis for identifying psychopathology. Issues of etiology, diagnosis, prognosis and social policy. Prerequisites: BBSC majors only and department consent required. (3-0) R

[PSYC 6338](#) ([ACN 6338](#) and [HCS 6338](#)) Functional Neuroanatomy (3 semester credit hours) An introduction to human neuroanatomy organized by major brain system. Function of the neuroanatomy of each major system and relation to neurological disorders associated with damage to the neuroanatomy of the system. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6339](#) ([ACN 6339](#) and [HCS 6339](#)) Psycholinguistics (3 semester credit hours) Classic and current research in psycholinguistics. Includes concepts from linguistics, the biological bases of speech and language processing, and child language acquisition. Prerequisite: BBSC majors only. (3-0) R

[PSYC 6346](#) ([ACN 6346](#) and [HCS 6346](#)) Systems Neuroscience (3 semester credit hours) Integrative systems level study of the nervous system. Aspects of neural mechanisms and circuitry underlying regulation of motor behaviors, sensory and perceptual processing, biological homeostasis, and higher cognitive functions. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6350](#) ([HCS 6350](#)) Social Development (3 semester credit hours) Foundations of social and personality development. Includes survey of psychodynamic, social learning, behavior genetic, family systems, and social-cognitive approaches to the study of attachment, parenting, aggression, peer relationships, sex typing, and other contemporary issues. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6355](#) ([ACN 6355](#) and [HCS 6355](#)) Judgment and Decision Making (3 semester credit hours) This course examines human inferences, judgments, decisions, and the processes by which we arrive at them. It will focus on the fact that our social judgments are not based on the laws of probability and chance, but on other cognitive processes that may have serious shortcomings in important inferential and decision making tasks. We will also see that these processes, while ecologically efficient, systematic and often predictable, are imperfect in today's data-rich environment.

Prerequisite: BBSC majors only. (3-0) T

[PSYC 6357](#) ([HCS 6357](#) and [HDCD 6319](#)) The Developing Child: Infants and Toddlers (3 semester credit hours) Theories of infant development in multiple content domains (cognitive, social, motor, language, physical) from conception to 24 months. Milestones of development and the understanding of relationship across domains and viewing the child as a "system" within the relationships. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6367](#) ([ACN 6367](#) and [HCS 6367](#)) Speech Perception (3 semester credit hours) Current topics and theories in speech perception. Topics include the acoustic correlates of speech sounds and the problem of invariance, the perception of speech under adverse conditions, the effects of hearing impairment, and models of speech perception. Prerequisites: BBSC majors only and department consent required. (3-0) R

[PSYC 6368](#) ([ACN 6368](#) and [HCS 6368](#)) Language Development (3 semester credit hours) Advanced study of normal oral language development. The goals of this course are to consider the developmental trajectories of the different components of language; to consider the varied and critical roles of language in human development; to understand the impact of culture, different languages, child factors and the environment on development; and to be introduced to the theoretical perspectives driving research and thinking in this area of inquiry. Prerequisite: BBSC majors only. (3-0) Y

[PSYC 6376](#) ([HCS 6376](#)) Social Psychology (3 semester credit hours) Overview of the social bases of behavior. Topics may include social cognition and self-justification, biases in judgment, attitudes and persuasion, conformity, compliance, group dynamics, prejudice and stereotyping, interpersonal attraction and relationships, aggression and altruism, cultural diversity, and applications relevant to these aspects of the human experience. Special attention to research paradigms of interest to students developing their own empirical work. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6395](#) ([ACN 6395](#) and [HCS 6395](#)) Cognitive Psychology (3 semester credit hours) Theory and research on perception, learning, thinking, psycholinguistics, and memory. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 6399](#) ([ACN 6399](#) and [HCS 6399](#)) Research Ethics and Scientific Integrity (3 semester credit hours) An interactive, intensive course designed to cover critical issues related to human subjects, animal welfare, research design, accountability of scientific actions and fraud. Course designed for individuals intending research careers in academia or industry. Prerequisite: BBSC majors only. (3-0) Y

[PSYC 7318](#) Special Topics in Psychological Sciences (3 semester credit hours) Selected topics of current research in psychological sciences. May be repeated for credit as topics vary. Prerequisites: BBSC majors only and department consent required. (3-0) R

[PSYC 7382](#) ([HCS 7382](#) and [HDCD 7382](#)) Health Psychology (3 semester credit hours) Current theory and research concerning the social, cognitive, behavioral, and biological processes that shape

experiences of physical health. The importance of these concepts for health behaviors, psychosomatics, and psychological adjustment to illness. Prerequisites: BBSC majors only and department consent required. (3-0) Y

[PSYC 7V50](#) Internship in Psychological Sciences (1-6 semester credit hours) Applied placement in community agency or other approved site. Pass/Fail only. May be repeated for credit (6 semester credit hours maximum). Prerequisites: BBSC majors only and department consent required. ([1-6]-0) S

[PSYC 8V80](#) Research in Behavioral and Brain Sciences (1-9 semester credit hours) Supervised research experience. Pass/Fail only. May be repeated for credit. Prerequisites: BBSC majors only and instructor consent required. ([1-9]-0) Y