

PBSI - PSYC & BRAIN SCIENCES (PBSI)

PBSI 105 Psychology as a Major and Profession

Credit 1. 1 Lecture Hour. Development of building blocks essential to success at Texas A&M University and in the Psychology major; introduction to understanding how adjusting to college life and exploring strategies will help manage time and motivation; examination of methods for effective studying and test preparation; information about psychology graduate school and careers in psychology without a graduate-level degree. **Prerequisites:** First semester students in psychology.

PBSI 107 Introduction to Psychology

Credits 3. 3 Lecture Hours. (PSYC 2301) Introduction to Psychology. Introductory course dealing with elementary principles of human behavior; also taught at Galveston and Qatar campuses.

PBSI 206/AFST 206 Black Psychology

Credits 3. 3 Lecture Hours. Critical examination of psychological experience, theories, and methods from perspectives grounded in the "Black experience." **Cross Listing:** AFST 206/PBSI 206.

PBSI 208 Stereotypes, Prejudice, and Minority Experience

Credits 3. 3 Lecture Hours. Overview of theory and research relating to stereotyping, prejudice, discrimination, and minority experiences from a social psychological perspective. **Prerequisites:** PBSI 107.

PBSI 209/AFST 209 Psychology of Culture and Diversity

Credits 3. 3 Lecture Hours. Introduction to various issues surrounding an increasingly interconnected and globalized world by critically examining the dynamic relationship between psychological processes and diverse (e.g., motivation, memory, self, prejudice) socio-cultural contexts. **Prerequisites:** PBSI 107. **Cross Listing:** AFST 209/PBSI 209.

PBSI 210/WGST 210 Psychological Aspects of Human Sexuality

Credits 3. 3 Lecture Hours. Interface between human sexuality, reproductive development and gender roles across the lifespan; theoretical and research literature promotes understanding of hormonal influences, learning processes, cultural differences, sexual response and love and attraction. **Prerequisite:** PBSI 107. **Cross Listing:** WGST 210/PBSI 210.

PBSI 225 Lifespan Development

Credits 3. 3 Lecture Hours. (PSYC 2314) Lifespan Development. Major theoretical perspectives and empirical research examining psychological processes across the lifespan; changes across the lifespan in emotional, cognitive, personality and social processes; stages of the lifespan including infancy, childhood, adolescence, adulthood and the end of life.

PBSI 235 Introduction to Behavioral and Cognitive Neuroscience

Credits 3. 3 Lecture Hours. Physiological bases of sensation, motor functions, emotion, motivation and complex psychological processes. **Prerequisites:** PBSI 107 or BIOL 111.

PBSI 245 Introduction to Psychological Science Methods

Credits 3. 3 Lecture Hours. (PSYC 2317) Introduction to Psychological Science Methods. Basic elements of statistics and research methods in the psychological and brain sciences; topics include ethics in psychological research, measurement, research design and descriptive and inferential statistics.

PBSI 251 Survey of Industrial/Organizational Psychology

Credits 3. 3 Lecture Hours. Literature and research in the basic theories and practices of I/O psychology including selection, testing, job analysis, performance appraisal, training, employee motivation, job satisfaction, leadership, and group processes within organizations.

PBSI 285 Directed Studies

Credits 0 to 3. 0 to 3 Other Hours. Directed readings or research problems in selected areas designed to supplement existing course offerings; individual report required. **Prerequisites:** Approval of instructor; major in psychology.

PBSI 289 Special Topics in...

Credits 1 to 4. 1 to 4 Other Hours. Selected topics in an identified area of psychology. May be repeated for credit. **Prerequisite:** PBSI 107.

PBSI 291 Research

Credits 0 to 3. 0 to 3 Other Hours. Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and weekly presentation of student research projects. May be repeated for credit. **Prerequisites:** PBSI 285; freshman or sophomore classification.

PBSI 300/WGST 300 Psychology of Women

Credits 3. 3 Lecture Hours. Theoretical and research literature relevant to psychological assumptions about the female personality; challenges to and verification of these assumptions by recent experimental studies. **Prerequisite:** PBSI 107. **Cross Listing:** WGST 300/PBSI 300.

PBSI 301 Elementary Statistics for Psychology

Credits 4. 3 Lecture Hours. 2 Lab Hours. Practical knowledge of statistics up through analysis of variance. Practice sessions devoted to numerical problems. Will not satisfy mathematics requirement in College of Liberal Arts curricula. **Prerequisites:** Grade of C or better in PBSI 107 and PBSI 245; major in psychology.

PBSI 302 Research Methods and Design in Psychology

Credits 4. 3 Lecture Hours. 2 Lab Hours. Research techniques in psychology with emphasis on the experimental method; laboratory exercises applied to specific problems in psychology. **Prerequisites:** Grade of C or better in PBSI 107 and PBSI 301; major in psychology.

PBSI 303 Psychology of Women of Color

Credits 3. 3 Lecture Hours. Interdisciplinary theories to study the unique yet intersectional experiences of women from different racial groups, ethnicities, nationalities and cultural backgrounds; scholarly research from the diversity science field; contemporary topics that have developed in a global context; examination of complex issues, which affect women of color across the lifespan. **Prerequisites:** Grade of C or better in AFST 201, PBSI 107, or WGST 200, or approval of instructor. **Cross Listing:** AFST 303 and WGST 303.

PBSI 304 Psychology of Sport and Physical Activity

Credits 3. 3 Lecture Hours. The relationship of psychology to sport, exercise and human performance; including history, application of learning principles, social psychology, personality variables, psychological assessment, youth sport, the female sport experience, psychology of coaching, exercise and human performance.

PBSI 305 Psychology of Adjustment

Credits 3. 3 Lecture Hours. Adjustment problems of normal people; application of psychological principles to family, school and community life.

PBSI 306 Psychological Disorders

Credits 3. 3 Lecture Hours. Survey of psychopathology; models of diagnosis and assessment, anxiety and depression, eating disorders, substance abuse, sexual dysfunctions, schizophrenia, bipolar illness, character disorders, children's disorders and aging. **Prerequisites:** PBSI 107; PBSI 301 and PBSI 302 recommended; also taught at Galveston campus.

PBSI 307 Developmental Psychology

Credits 3. 3 Lecture Hours. Growth and development of normal child from infancy to adolescence with emphasis on elementary school years. **Prerequisite:** PBSI 107; PBSI 245, MATH 140, MATH 168, MATH 142, MATH 147, MATH 151, MATH 171, MATH 152, MATH 148, MATH 172, MATH 150, PHIL 240 or STAT 201.

PBSI 310 Career Readiness and Preparation

Credit 1. 1 Lecture Hour. Exploration of various career paths in the preparation of upper-level undergraduate psychology and neuroscience majors for either entering the job market or pursuing graduate school in psychology or related fields; assistance in preparing for and succeeding in graduate school, and how to apply for a job or to graduate school. **Prerequisites:** Junior or senior classification; Psychology and Neuroscience-BCN majors.

PBSI 311 Psychology of Animal Behavior

Credits 3. 3 Lecture Hours. Problems, principles, and methods of animal psychology; animal learning, motivation, discriminative processes and abnormal, social and instinctual behaviors. **Prerequisites:** PBSI 107, BIOL 111, or BIOL 113.

PBSI 315 Social Psychology

Credits 3. 3 Lecture Hours. Social psychological variables operating on the individual; results of experimental laboratory findings; interaction of personality and social behavior. **Prerequisites:** PBSI 107.

PBSI 316/COMM 316 Media Psychology

Credits 3. 3 Lecture Hours. Examine the role of media and its impact on human behavior, emotions and thoughts; topics include mass media, social media and how they influence individual and societal functioning across a range of important psychological topics; e.g., self-image, sexual behavior, mental health, violence. **Prerequisites:** PBSI 107. **Cross Listing:** COMM 316/PSYC 316.

PBSI 319 History and Systems of Psychology

Credits 3. 3 Lecture Hours. Historical analysis of pre-scientific psychology in philosophy and physiology through the period of the psychological "schools." **Prerequisite:** PBSI 107.

PBSI 320 Sensation-Perception

Credits 3. 3 Lecture Hours. Review of sensory physiology, sensory and perceptual phenomena and the major perceptual theories; current research in the field. **Prerequisites:** PBSI 235.

PBSI 323 Psychology of Adolescence

Credits 3. 3 Lecture Hours. Psychological problems of normal teenage individual; ways and means of aiding youth to meet these problems constructively. **Prerequisites:** PBSI 107; PBSI 245 or one of the following: MATH 140, MATH 168, MATH 142, MATH 147, MATH 151, MATH 171, MATH 152, MATH 148, MATH 172, MATH 150, PHIL 240, STAT 201; PBSI 301 and PBSI 302 recommended.

PBSI 330 Personality

Credits 3. 3 Lecture Hours. Review of personality theories, techniques of assessment and research relevant to understanding individual differences. **Prerequisites:** PBSI 107; PBSI 301 and PBSI 302 recommended.

PBSI 332 Neuroscience of Learning and Memory

Credits 3. 3 Lecture Hours. Brain mechanisms of learning and memory from molecular to behavioral levels; synaptic plasticity, model systems, multiple memory systems, diseases of learning and memory. **Prerequisites:** PBSI 235, PBSI 340, VIBS 277/NRSC 277, or NRSC 277/VIBS 277.

PBSI 333 Biology of Psychological Disorders

Credits 3. 3 Lecture Hours. Neurobiology and clinical explanation of molecular mechanisms underlying psychiatric disorders and their drug treatments; depression and bipolar, anxiety disorders, mood disorders, psychosis and schizophrenia. **Prerequisites:** PBSI 235, PBSI 340, VIBS 277/NRSC 277, or NRSC 277/VIBS 277.

PBSI 336 Drugs and Behavior

Credits 3. 3 Lecture Hours. Physiological, pharmacological and behavioral effects of psychoactive drugs, including short-term and long-term effects of psychoactive drugs, properties of addictive drugs, etiology of addiction, and treatments of drug addiction and withdrawal. **Prerequisites:** PBSI 235, PBSI 340, VIBS 277/NRSC 277, or NRSC 277/ VIBS 277.

PBSI 340 Psychology of Learning

Credits 3. 3 Lecture Hours. Survey of significant concepts, experimental methods and principles of learning. **Prerequisites:** PBSI 107, BIOL 111, or BIOL 113.

PBSI 345 Human Cognitive Processes

Credits 3. 3 Lecture Hours. Human cognition and information processing; perception, attention, memory, reasoning and problem solving; experimental methods and data, and contemporary theories of human cognition. **Prerequisites:** PBSI 107; PBSI 245 or one of the following: MATH 140, MATH 168, MATH 142, MATH 147, MATH 151, MATH 171, MATH 152, MATH 148, MATH 172, MATH 150, PHIL 240, STAT 201; PBSI 301 and PBSI 302 recommended.

PBSI 346 Psychology of Language

Credits 3. 3 Lecture Hours. Examines theories of how language is acquired, comprehended, produced, stored and used in normal and brain-impaired individuals. **Prerequisites:** PBSI 107; PBSI 301 and PBSI 302 recommended.

PBSI 350 Cognitive Neuroscience

Credits 3. 3 Lecture Hours. Research in cognitive neuroscience; methodological advances that enable the study of the human brain safely in the laboratory; complex aspects of the mind like emotion, social behavior and consciousness. **Prerequisites:** PBSI 107; PBSI 235; PBSI 301, PBSI 302, and NRCS 277 recommended.

PBSI 352 Organizational Psychology

Credits 3. 3 Lecture Hours. Literature and research in basic theories and practices of organizational psychology including employee motivation, leadership, job satisfaction, counterproductive work behaviors, organizational commitment, culture, climate, communication, and group processes within organizations. **Prerequisites:** PBSI 107; PBSI 245 or one of the following: MATH 140, MATH 168, MATH 142, MATH 147, MATH 151, MATH 171, MATH 152, MATH 148, MATH 172, MATH 150, PHIL 240, STAT 201; PBSI 301 and PBSI 302 recommended.

PBSI 353 Personnel Psychology

Credits 3. 3 Lecture Hours. Literature and research in basic theories and practices of personnel psychology including job analysis, testing and validation, selection, performance appraisal, training, and legal issues in employment decision making. **Prerequisites:** PBSI 107; PBSI 245 or one of the following: MATH 140, MATH 168, MATH 142, MATH 147, MATH 151, MATH 171, MATH 152, MATH 148, MATH 172, MATH 150, PHIL 240, STAT 201; PBSI 301 and PBSI 302 recommended.

PBSI 354 Conflict and Negotiation

Credits 3. 3 Lecture Hours. Examination of the field of conflict and negotiation, including the structure and causes of common interpersonal, intragroup, and intergroup conflicts, effective negotiation strategies, ethics, mediation, and the development of negotiating skills. **Prerequisite:** PBSI 107.

PBSI 360 Health Psychology and Behavioral Medicine

Credits 3. 3 Lecture Hours. Health psychology emphasizing behavioral and lifestyle factors in health and illness, prevention and modification of health-compromising behaviors, health care utilization, and psychological management of chronic disorders and psychological management of chronic disorders and terminal illnesses. **Prerequisites:** PBSI 107; junior or senior classification.

PBSI 365 Psychology of Aging

Credits 3. 3 Lecture Hours. Examination of the psychological aspects of the aging process including physiology and health, memory and intellectual functioning, personality and social relationships, emotional health and late life transition. **Prerequisite:** PBSI 107.

PBSI 371 Forensic Psychology

Credits 3. 3 Lecture Hours. Interface between psychology and the legal system; role of psychological theories and data, as well as mental health expertise, in the resolution of criminal trials and civil disputes; legal system's impact on the practice of psychology. **Prerequisites:** PBSI 107; PBSI 306 recommended.

PBSI 375 Qualitative Methods in the Psychological Sciences

Credits 3. 3 Lecture Hours. Research methods and approaches to engaging in qualitative analysis; topics include epistemological and ontological assumptions of qualitative research, ethical considerations, focus groups, interviews, qualitative surveys, thematic analysis, and use of qualitative software. **Prerequisites:** Junior or senior classification; grade of C or better in PBSI 107.

PBSI 389 Careers in Psychology

Credits 3. 3 Lecture Hours. Exploration of graduate study and professional careers in the field of psychology, including teaching, research, and clinical practice; content will include graduate admissions, licensure types, areas of specialization and professional skills related to training and practice in the field of psychology. **Prerequisites:** PBSI 107; approval of instructor.

PBSI 407 Behavioral Disorders of Children

Credits 3. 3 Lecture Hours. Behavior problems related to childhood; psychological aspects of mental retardation, emotional disturbance, physical handicaps and other disorders; causative factors, preventative and therapeutic methods explored; where feasible, practical experience included as requirement. **Prerequisites:** PBSI 306; PBSI 307 or equivalent.

PBSI 408 Pain Psychology

Credits 3. 3 Lecture Hours. Critical and transdisciplinary approach to the study of pain including an examination of personal and historical conceptions of pain, understanding of biopsychosocial mechanisms of pain, and consideration of sociodemographic and global pain disparities. **Prerequisites:** PBSI 107; PBSI 302 and PBSI 360 recommended; junior or senior classification.

PBSI 411 Psychology of Self

Credits 3. 3 Lecture Hours. Overview of psychological theory and research on issues related to the self, the self-concept and identity, and how these phenomena are integral to the human experience and to mental health and well-being. **Prerequisite:** PBSI 107 or approval of instructor.

PBSI 414 Behavior Principles

Credits 3. 3 Lecture Hours. Behavioral analysis of humans' complex interactions with their environments: how behavioral repertoires are constructed during maturation process; how existent behaviors are strengthened, weakened or eliminated; and how features of environment exercise control over behavioral components within a repertory.

Prerequisites: 9 hours of psychology; PBSI 107; junior or senior classification; PBSI 301 and PBSI 302 recommended.

PBSI 421 Existential Psychology

Credits 3. 3 Lecture Hours. Study of major theoretical perspectives and contemporary research in existential psychology; focus on theory and research examining major topics in existential psychology including the causes and consequences of mortality awareness, self-knowledge, authenticity, belief in free-will and the experience of meaning in life.

Prerequisite: PBSI 107.

PBSI 425 Psychology of Emotion

Credits 3. 3 Lecture Hours. Examination of the theories and approaches in the psychological study of emotion; topics related to emotion, including predictors of happiness, causes and consequences of emotion, and the role of emotion in society; identification of facial expressions of emotion; examination of techniques that promote happiness.

Prerequisites: PBSI 107.

PBSI 432 Diversity and Inclusion in Organizations

Credits 3. 3 Lecture Hours. Psychological and organizational theory and research on the experience of diversity and inclusion in organizations.

Prerequisites: PBSI 315, PBSI 352, PBSI 353, or approval of instructor.

PBSI 440 Hormones and Behavior

Credits 3. 3 Lecture Hours. Principles of hormones and the endocrine system; relationships among hormones, the nervous system and a variety of behaviors in vertebrates including humans. **Prerequisites:** PBSI 235, PBSI 340, VIBS 277/NRSC 277, or NRSC 277/VIBS 277, or approval of instructor.

PBSI 445 Psychological and Social Determinants of Health Disparities

Credits 3. 3 Lecture Hours. Critical examination of macrosocial factors and position within racial and social statuses that most often affect health, causing disparities, through intermediary mechanisms and process, such as health behavior, stress, medical care and a broad range of social, psychological, cultural and religious resources.

PBSI 450 Clinical Psychology

Credits 3. 3 Lecture Hours. Analysis of the field of clinical psychology with a particular focus on the theoretical and scientific bases for the practice of clinical psychology. **Prerequisites:** Grade of C or better in PBSI 306; PBSI 301 and PBSI 302 recommended.

PBSI 470 Psychological Testing and Measurement

Credits 3. 3 Lecture Hours. Theories and techniques of measurement of psychological concepts; a range of measurement models and procedures; critical tasks of evaluating strategies for measuring psychological concepts and drawing inferences and interpretations from commonly used psychological assessments. **Prerequisites:** PBSI 301 recommended; junior or senior classification or approval of instructor.

PBSI 471 Research Writing in Neuroscience

Credit 1. 1 Lecture Hour. Development of written communication skills; comprehension and communication of neuroscience research concepts to both academics and lay people. **Prerequisite:** PBSI 235; junior or senior classification.

PBSI 475 Communicating Neuroscience Concepts

Credit 1. 1 Lecture Hour. Development of written communication skills; written assignments include summaries of research in the field of neuroscience. **Prerequisite:** PBSI 235; junior or senior classification.

PBSI 483 Teaching Scholars

Credits 0 to 3. 0 to 3 Other Hours. Acquisition of experience in educational programs and knowledge about the scientific basis for educational strategies and development of materials in conjunction with serving as a course teaching assistant. **Prerequisites:** Major or minor in psychology; junior or senior classification; approval of instructor.

PBSI 484 Field Experiences

Credits 0 to 6. 0 to 6 Other Hours. Participation in an approved mental health, mental retardation, school, industrial or other approved setting; field experiences supervised by an appropriate professor within an area of student interest; course requirements vary with the setting, the supervising professor and the needs of the individual student. May be repeated for credit. **Prerequisites:** PBSI 301 and PBSI 302; 12 hours of psychology; GPR of 2.5 or better in all psychology courses; major in psychology; approval of instructor.

PBSI 485 Directed Studies

Credits 0 to 6. 0 to 6 Other Hours. Directed readings or research problems in selected areas designed to supplement existing course offerings. May be repeated for credit. **Prerequisite:** Approval of instructor.

PBSI 489 Special Topics in...

Credits 1 to 4. 1 to 4 Other Hours. Selected topics in an identified area of psychology. May be repeated for credit. **Prerequisites:** PBSI 107 and approval of instructor.

PBSI 491 Research

Credits 0 to 3. 0 to 3 Other Hours. Research conducted under the supervision of a chosen faculty member in the department of psychology. May be repeated for credit. **Prerequisites:** Junior or senior classification; approval of instructor.

PBSI 603 Motivation and Cognitive Processes

Credits 3. 3 Lecture Hours. Selected topics in areas of motivation and higher mental processes; symbolic processes in perceptual organization; learning and remembering, reasoning and creativity. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 606/NRSC 606 Learning

Credits 3. 3 Lecture Hours. Procedural and theoretical issues in study of basic learning mechanisms in animals and humans, including Pavlovian and instrumental conditioning. Application of this work to other domains and relevant biological mechanisms also discussed. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 606/PBSI 606.

PBSI 607 Methods and Statistics in Psychological Science I

Credits 3. 2 Lecture Hours. 3 Lab Hours. Experimental methods and statistics; developing a general frame of reference for approaching experimental research problems and associated statistical tests; t-tests, ANOVA, MANOVA. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 608 Introduction to Clinical Ethics and Techniques

Credits 3. 3 Lecture Hours. Ethical and legal issues in clinical practice; development of listening and interpretation skills; supervised practicum in interviewing non-clinical subjects; structured role-play of clinical situations. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 609/NRSC 609 Physiological Psychology

Credits 3. 2 Lecture Hours. 3 Lab Hours. Current research and methodological procedures on physiological bases of sensation-perception, memory and learning, arousal-sleep-attention, emotions and motivation. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 609/PBSI 609.

PBSI 610 Organizational Psychology

Credits 3. 3 Lecture Hours. Current literature and research in employee motivation, satisfaction, leadership, communication, group conflict and other group processes. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 611 Personnel Psychology

Credits 3. 3 Lecture Hours. Application of psychological principles and research methods to the areas of selection, placement, job analysis, performance appraisal and training. **Prerequisites:** PBSI 251 or PBSI 353 or graduate classification or approval of instructor.

PBSI 613 Practicum in Psychological Assessment

Credits 1 to 4. 1 to 4 Other Hours. Application of psychological assessment across the life-span; assessment of cognitive, intellectual, academic, and memory abilities and adaptive behavior; assessment of personality, behavioral style, and systems/environment; integration of assessment measures in comprehensive psychological evaluations; attendance required at Practicum Seminar designed to integrate research, coursework, and applied training and supervisory instruction from a faculty supervisor; at least 3 credits and no more than 18 credits applied to degree plan. **Prerequisites:** PBSI 623 and PBSI 624, or approval of instructor.

PBSI 614 Practicum in Psychology

Credits 1 to 6. 1 to 6 Other Hours. Practical on-the-job experience for graduate students. Activities will be guided by psychologists in the following areas: behavior modification, social, clinical, experimental and industrial. Supervision will be provided by members of University staff. May be taken more than once but not to exceed 18 hours of credit toward a graduate degree. **Prerequisite:** PBSI 608 or approval of instructor.

PBSI 615/NRSC 615 Perceptual Processes

Credits 3. 3 Lecture Hours. Complex sensory and perceptual phenomena with emphasis on the relationship between perception and motivation, cognition, creativity and instinctive/ethological; learning/experiential factors in higher level perceptual processes. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 615/PBSI 615.

PBSI 616 Treatment of Problem Behavior in Children and Families

Credits 3. 3 Lecture Hours. Current methods of treating families with children displaying aggressive, hyperactive, underachieving and other problem behaviors in natural settings; behavior of children and adolescents at home, school and at play. **Prerequisite:** Approval of instructor.

PBSI 617 Analytical Psychology

Credits 3. 3 Lecture Hours. Survey emphasizing Jungian psychology but including coverage of Freudian psychology; application of analytical principles and concepts to a variety of clinical issues and situations. **Prerequisite:** Approval of instructor.

PBSI 618 Psychology of Persuasion

Credits 3. 3 Lecture Hours. Theory and scientific evidence regarding strategies and tactics of persuasion; explores theoretical controversies and presents potential integrations. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 620 Theories of Social Psychology

Credits 3. 3 Lecture Hours. Current theories of social psychology and a review of related studies to these theories; theories of attitude change, prosocial behavior, aggression, equity, coalition formation, social learning and S-R theory applied to social behavior. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 621 Seminar in Social Psychology

Credits 3. 3 Other Hours. Attitudes and persuasion; small group interaction and performance; prosocial behavior; aggression; self concept; applied social problems; gender differences in social interaction; and social cognition. May be repeated up to three times for credit. **Prerequisite:** Approval of instructor.

PBSI 622 Affective Science

Credits 3. 3 Lecture Hours. Overview of theories and approaches in the interdisciplinary field of affective science; historical and contemporary approaches focused on emotional and affective processes. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 623 Psychological Assessment I

Credits 3. 3 Lecture Hours. Principles of psychological testing; uses and critical evaluation of tests of achievement, intelligence, aptitude and personality. **Prerequisites:** Enrollment in Clinical Psychology Program or approval of instructor.

PBSI 624 Psychological Assessment II

Credits 3. 3 Lecture Hours. Theory and application of psychological assessment of children, adolescents, and adults; assessment of cognitive, intellectual, academic, and memory abilities and adaptive behavior; integration of assessment measures in comprehensive psychological evaluations. **Prerequisite:** Enrollment in Clinical Psychology Program or approval of instructor.

PBSI 626 Psychopathology

Credits 3. 3 Lecture Hours. Various symptom categories in psychopathology including differing theoretical conceptualizations of these symptom categories, and theories and research concerning etiology and treatment. **Prerequisite:** Enrollment in Clinical Psychology Program or approval of instructor.

PBSI 627 Psychological Assessment of Children and Adolescents

Credits 3. 3 Lecture Hours. Theory and application of psychological assessment of toddlers, children, and adolescents; assessment of cognitive, intellectual, academic, and memory abilities and adaptive behavior; assessment of personality, behavioral style, family functioning, and child-focused systems; integration of assessment measures in comprehensive psychological evaluations. **Prerequisites:** PBSI 623 and PBSI 624, or approval of instructor.

PBSI 629 Pain Psychology

Credits 3. 3 Lecture Hours. Theory and research on the psychology of pain; examination of historical and personal conceptions of pain; readings and discussions of biopsychosocial mechanisms of pain; consideration of sociodemographic and global pain disparities.

Prerequisites: Graduate classification or approval of instructor.

PBSI 630 Health Psychology and Behavioral Medicine

Credits 3. 3 Lecture Hours. Theory, research and practice of health psychology emphasizing the prevention and modification of health compromising behaviors; psychological management of stress, pain and chronic/terminal illness; effective interventions for specific health behaviors/disorders. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 631 Academic Career Development in Psychological and Brain Sciences

Credit 1. 1 Lecture Hour. Strategies and career planning for a research and teaching oriented academic track; focus on developing a multi-year plan for placement in a position to be maximally competitive for an academic job and preparation in how to assemble a strong application package. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 633 Gender and Minority Issues in Clinical Psychology

Credits 3. 3 Lecture Hours. Human behavior and mental health as a function of culture, gender and sexual orientation; discussion of absolutist, relativist and universalist perspectives in cross-cultural psychology; psychology of stereotype and prejudice; adjustment through acculturation and biculturalism; learning about our own and other cultures. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 635 Behavioral and Cellular Research Seminar

Credits 2. 2 Other Hours. Expose graduate students to neuroscience research, theory, and proposal development; research presentations by guest speakers, faculty, and graduate students; Discussions, readings and presentations on issues related to research design, statistics, methodology, ethics, IACUC, grant writing, presentation skills, job talks, and other relevant topics. May be taken four times for credit.

Prerequisite: Graduate classification or approval of instructor.

PBSI 636 Seminar in Developmental Psychology

Credits 3. 3 Other Hours. Cognitive development; social and emotional development; developmental abnormalities in connection with social/emotional and cognitive development; language acquisition; family processes; and development during infancy; recent developments in these fields; topics will vary from semester to semester. May be repeated for credit up to three times as topics change. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 637 Clinical Interventions I

Credits 3. 3 Lecture Hours. Theory, research and techniques related to evidence-based behavioral and cognitive-behavioral approaches to clinical interventions; ethical, professional, multicultural and history/systems issues in therapeutic psychological interventions. **Prerequisite:** Enrollment in Clinical Psychology Graduate Program or approval of instructor.

PBSI 638 Clinical Interventions II

Credits 3. 3 Lecture Hours. Theory, research, and techniques related to evidence-based interpersonal, psychodynamic, group therapy, and family therapy approaches to clinical interventions; ethical, professional, multicultural, and history/systems issues in therapeutic psychological interventions. **Prerequisite:** Enrollment in Clinical Psychology Graduate Program or approval of instructor.

PBSI 639 Pediatric Psychology

Credits 3. 3 Lecture Hours. Application of clinical/counseling/school psychology to children and adolescents with chronic illnesses or disabilities and their families; theoretical foundations and models for consultation, assessment and intervention strategies; unique ethical and professional issues associated with research and service delivery in child health psychology/pediatric behavioral medicine. **Prerequisite:** PBSI 685, EPSY 685, PBSI 691, or EPSY 691, or approval of instructor; graduate classification.

PBSI 642/NRSC 642 Neuroimaging Data Analysis

Credits 3. 3 Lecture Hours. Physics of magnetic resonance imaging; experimental design for fMRI; linear and nonlinear image registration; data denoising; data filtering and smoothing; volume and surface methods; General Linear Models and multivariate approaches to subject-level data; mixed effects modeling, random effects modeling, permutation methods for linear models; functional connectivity. **Prerequisite:** Graduate classification or approval of instructor; coursework in regression models recommended. **Cross Listing:** NRSC 642/PBSI 642.

PBSI 649/NRSC 649 Seminar in Behavioral Neuroscience

Credits 3. 3 Other Hours. Behavioral neuroscience; including behavioral pharmacology, neuropharmacology, methods and techniques, drug reinforcement, behavioral toxicology, pain perception and ingestive behavior. May be repeated up to three times for credit. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 649/PBSI 649.

PBSI 650 Clinical Psychopharmacology

Credits 3. 3 Lecture Hours. Survey of topics in clinical psychopharmacology, including pharmacodynamics, major neurotransmitter systems, and therapeutic applications and limitations. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 651/AFST 651 Cultural Psychology

Credits 3. 3 Lecture Hours. Surveys key readings in the field of cultural psychology; discussion and examination of relationship between psychological processes (e.g., motivation, memory, self perception, prejudice) and sociocultural contexts. **Prerequisites:** Enrollment in a graduate program or approval of instructor. **Cross Listing:** AFST 651/PBSI 651.

PBSI 652 Statistics and Research Methods in Industrial/Organizational Psychology I

Credits 3. 3 Lecture Hours. The first of two courses in statistics and research methods; integrates research design, appropriate methodology, and advanced statistical techniques used by industrial/organizational psychologists (e.g., General Linear Model); current topics pertinent to the content domain draws heavily from the application of quantitative psychology literature to workplace problems; statistical software packages will be used to enhance conceptual understanding. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 653 Statistics and Research Methods in Industrial/Organizational Psychology II

Credits 3. 3 Lecture Hours. The second of two courses in statistics and research methods; integrates research design, appropriate methodology, and advanced statistical techniques used by industrial/organizational psychologists (e.g., Generalized Linear Model, nonlinear regression); current topics pertinent to the content domain draws heavily from the application of quantitative psychology literature to workplace problems; statistical software packages will be used to enhance conceptual understanding. **Prerequisites:** PBSI 652; graduate classification or approval of instructor.

PBSI 654 Psychometrics and Survey Design in Industrial/Organizational Psychology

Credits 3. 3 Lecture Hours. Study of psychological measurement for testing and assessment purposes in I/O psychology; classical and modern test theories are introduced as well as their implications for test construction and survey design; emphasis on skill acquisition through developing, administering and scoring predictor or criterion tests and presenting results. **Prerequisites:** PBSI 652; PBSI 653; graduate classification or approval of instructor.

PBSI 655/NRSC 655 Foundations in Cognitive Neuroscience

Credits 3. 3 Lecture Hours. Experimental design in cognitive neuroscience; basics of cognitive neuroscience methods; perception versus imagery; attention; motor control; short-term and long-term memory; volition and consciousness; executive function; decision making; affect and psychopathology; social cognition. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 655/PBSI 655.

PBSI 656 Advanced Selection

Credits 3. 3 Lecture Hours. An in-depth analysis of psychological principles and employee selection methods with a focus on applied practice and current topics; emphasis on the application of evidence-based best practices to the selection process; importance of job and work analysis, testing and assessment, psychometrics, validation procedures, and measurement in light of ethical, legal, diversity and international issues. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 657 Training and Performance Management

Credits 3. 3 Lecture Hours. A comprehensive review of theory, research, current topics and practice associated with training and performance management; training as an organizational subsystem is emphasized as the model for the design, implementation and evaluation of training programs; appraisal and management of work performance for various organizational purposes. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 658 Work Attitudes and Motivation

Credits 3. 3 Lecture Hours. A critical analysis of major theories, current research and practical or current issues associated with employee attitudes and motivation in the workplace; topics include job satisfaction, organizational commitment, work engagement, stress, absenteeism, turnover, motivation, job design and quality of work, and work values; key methodological and measurement issues; application of social psychology literature to workplace problems. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 659 Groups, Teams and Leadership

Credits 3. 3 Lecture Hours. An in-depth review of the factors leading to effective groups, teams and leadership in organizations; topics include strategies for building high performance teams and techniques for assessing, selecting and developing leaders; the course integrates theory, research and current topics with experiential learning; application of social psychology literature to workplace problems. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 660 Self and Identity

Credits 3. 3 Lecture Hours. An overview of the historical and current issues related to the study of the self and identity.

PBSI 670 Professional Seminar in Social Psychology

Credits 2. 1 Lecture Hour. 2 Lab Hours. Survey of recent theoretical, methodological and empirical developments in social psychology; different topics each semester will include theory and research on attitudes and persuasion, social cognition, interpersonal relationships, group processes, social development, and personality and social behavior. May be taken for credit up to eight times. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 671/NRSC 671 Methods and Statistics in Psychological Science II

Credits 3. 2 Lecture Hours. 3 Lab Hours. Intensive practical study of designs of special interest to psychological scientists; repeated measures designs. **Prerequisite:** Graduate classification or approval of instructor. **Cross Listing:** NRSC 671/PBSI 671.

PBSI 672 Qualitative Methods in Psychological Sciences

Credits 3. 3 Lecture Hours. Overview of psychology qualitative methods; assumptions of qualitative research; focus groups; qualitative analysis software; thematic analysis. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 673 Psychometric Theory and Methods

Credits 3. 3 Lecture Hours. Overview of methods for the construction and evaluation of psychological measurements including unidimensional scales and multi-variate analytical techniques; approaches include classical test theory, factor analysis, unidimensional scaling, latent trait theory, profile and discriminant analysis. **Prerequisites:** PBSI 607 and PBSI 671/NRSC 671 or equivalents.

PBSI 674 Covariance Structure Models and Causal Analysis

Credits 3. 3 Lecture Hours. Advanced introduction to structural equation models and causal analysis; emphasis on underlying theory and assumptions as well as practical application for the behavioral sciences. **Prerequisites:** PBSI 671/NRSC 671 or STAT 608 or approval of the instructor.

PBSI 675 Clinical Psychology and the Legal System

Credits 3. 3 Lecture Hours. Survey of theoretical and applied topics relevant to clinical psychology in the legal system; includes assessment of adjudicative competence, criminal responsibility and risk assessment; correctional psychology and offender rehabilitation. **Prerequisite:** Approval of instructor.

PBSI 678/CPSY 678 Couples Therapy

Credits 3. 3 Lecture Hours. Theory and practice of marital therapy emphasizing systems and communication approaches; effective strategies and techniques; therapy with specific marital problems and obstacles to effective therapy. **Prerequisite:** PBSI 637, CPSY 631, or equivalent. **Cross Listing:** CPSY 678/PBSI 678.

PBSI 680 Seminar in Organizational Psychology

Credits 3. 3 Other Hours. Areas of organizational psychology: job stress, socialization processes, motivation, leadership, person perception in organizations, conflict management. May be repeated up to five times for credit; content will vary by semester. **Prerequisite:** PBSI 610 or approval of instructor.

PBSI 681 Industrial/Organizational Psychology

Credits 1 to 3. 1 to 3 Other Hours. Both research and applied colloquia provided by I/O psychologists and individuals in related disciplines. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 682 Seminar in Personnel Selection and Placement

Credits 3. 3 Other Hours. Personnel selection and placement including job analysis and evaluation, psychological testing, test development, psychometric theory, theories of test fairness, validity generalization, utility theory, performance appraisal and selection/placement decision models. May be repeated up to five times for credit; content will vary by semester. **Prerequisite:** PBSI 611 or approval of instructor.

PBSI 683 Professional Seminar

Credits 1 to 3. 1 to 3 Other Hours. Guidance in searching for and securing internships and jobs upon graduation; review of internship requirements and expectations; professional development sessions and preparation of application materials; assistance in the transition from student to professional, e.g., professional identity, affiliation and networks. May be taken for credit up to three hours. **Prerequisites:** Graduate classification or approval of instructor.

PBSI 684 Professional Internship

Credits 0 to 12. 0 to 12 Other Hours. Full-time internship experience in a departmentally-approved internship training facility. May be taken up to 12 hours for credit. **Prerequisite:** Approval of instructor.

PBSI 685 Directed Studies

Credits 1 to 4. 1 to 4 Other Hours. Directed individual study of selected problem in psychology or special topics to fit small group requirements. **Prerequisite:** Approval of instructor.

PBSI 689 Special Topics in...

Credits 1 to 4. 1 to 4 Other Hours. Selected topics in an identified area of psychology. May be repeated for credit. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 690 Cognoscenti - Professional Issues in Cognitive Psychology

Credits 2. 2 Lecture Hours. Introduce students to current themes in research, theory and practice in cognitive psychology; presentations by guest speakers from within and outside the University. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 691 Research

Credits 1 to 23. 1 to 23 Other Hours. Research for thesis.

PBSI 695 Manuscript Development and Publication of Academic Research in Psychological and Brain Sciences

Credits 3. 3 Lecture Hours. Development of research writing and instruction on the process of publishing in scientific, peer-reviewed scientific academic journals and books; exploration of the many different aspects of publishing research; review of the mechanics of the process ranging from choosing topics, writing the paper, the submission process, the review process, dealing with rejection, responding to requests for revision and resubmission and acceptance and publication; discussion of the benefits of publishing and how publishing factors into career considerations and aspirations. **Prerequisite:** Graduate classification.

PBSI 696 Principles and Methods for Teaching in Psychology

Credits 3. 3 Lecture Hours. Practical issues related to college teaching; reflection on and improvement of teaching skills; developing course objectives and teaching philosophies; improving teaching tools; understanding teaching-learning situations; advising students; ethics in teaching. **Prerequisite:** Graduate classification or approval of instructor.

PBSI 697 Seminar in the Teaching of Introductory Psychology

Credits 3. 3 Lecture Hours. Introductory methods relevant to teaching psychology; for graduate students assisting in the teaching of PSYC 107. **Prerequisite:** Graduate classification or approval of instructor.