

# Psychology (PSCH)

## Courses

### **PSCH 100. Introduction to Psychology. 4 hours.**

Survey of basic concepts of contemporary psychology. Introduction to the nervous system, perception, motivation, learning and memory, social behavior, personality, developmental and clinical psychology. Course Information: Students under 18 years of age need parental consent to participate in research experiments that are part of the course. Instructions for obtaining parental consent will be provided during class early in the semester. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture. *Individual and Society course.*

### **PSCH 184. The Basics of Neuroscience. 1 hour.**

Introduction to the scientific study of the brain and behavior. Overview of neuroscience as an integrative discipline. Course Information: Same as PHIL 184 and BIOS 184. Satisfactory/Unsatisfactory grading only.

### **PSCH 210. Theories of Personality. 3 hours.**

Survey of major theoretical approaches to the study of personality and the evidential basis underlying each approach. Course Information: Prerequisite(s): PSCH 100. *Individual and Society course.*

### **PSCH 231. Community Psychology. 3 hours.**

Psychological principles, research and interventions concerning community settings; community human services, primary prevention, consultation, advocacy, social ecology, organizational change, and citizen participation. Course Information: Prerequisite(s): PSCH 100. *Individual and Society course.*

### **PSCH 242. Introduction to Research in Psychology. 3 hours.**

Techniques and problems associated with the study of behavior. Emphasis on measurement, descriptive statistics, and the principles of experimental design. Exercises involving data collection. Participation in research. Course Information: Consult the class schedule for details on method of instruction for this course. Course taught in an online or hybrid format involves heavy computer usage; computer and internet access are required. Prerequisite(s): Grade of C or better in PSCH 100. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

### **PSCH 262. Behavioral Neuroscience. 3 hours.**

Research and theories concerning the physiological bases of behavior. Understanding of basic brain organization with emphasis on neural substrates of learning, motivation and perception. Course Information: Prerequisite(s): PSCH 100.

### **PSCH 270. Introduction to Psychological and Behavioral Disorders. 3 hours.**

A survey course covering the assessment, description, causes, and treatments of many psychological disorders, including depression, anxiety disorders, psychosis, sexual dysfunction, and personality disorders. Course Information: Prerequisite(s): PSCH 100. *Individual and Society course.*

### **PSCH 271. Resilience: The Psychology of Positive Adaptation. 3 hours.**

An overview of resilience research, definitions, correlates, and causes of successful adaptation in response to stress and adversity. Application on scientifically-validated strategies for improving coping skills and mental health. Course Information: Prerequisite(s): PSCH 100. *Individual and Society course.*

### **PSCH 272. Psychology of Climate Change. 3 hours.**

Research and theories concerning human behavioral causes of climate change and evidence-based approaches toward addressing mental health impacts. Emphasis on strategies for individual and systemic behavior change. Course Information: Prerequisite(s): PSCH 100.

### **PSCH 303. Writing in Psychology. 3 hours.**

Teaches students the fundamentals of scientific writing including literature reviews, research reports and book reviews. Students will write a minimum of three papers dealing with psychological topics. Course Information: Prerequisite(s): PSCH 242 and ENGL 161 with a minimum grade of C; MATH 108 or MATH 118 (or the equivalent) with a minimum grade of C or MATH 090; or consent of the instructor. For psychology majors only. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

### **PSCH 312. Social Psychology. 3 hours.**

Survey of theory and research in social psychology, emphasizing experimental investigations of attitudes and social cognition, and interpersonal relations and group processes. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

### **PSCH 313. Laboratory in Social Psychology. 3 hours.**

Conduct laboratory and field experiments in social psychology on problems in attitudes and social cognition, and interpersonal relations and group processes. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 312. For Psychology majors only. Class Schedule Information: To be properly registered, students must be enrolled in one Lecture/Discussion and one Laboratory.

### **PSCH 315. Psychology of Women and Gender. 3 hours.**

Critical examination of research on women and gender across the life span, including psychological aspects of reproduction, and the way that gender shapes cognition, sexuality, family, friendship, and work experiences. Course Information: Same as GWS 315. Prerequisite(s): Grade of C or better in PSCH 242 or consent of the instructor.

### **PSCH 320. Developmental Psychology. 3 hours.**

Analysis of research and theory concerning social, cognitive, and biopsychological aspects of human development. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

### **PSCH 321. Laboratory in Developmental Psychology. 3 hours.**

Survey of dominant research strategies in contemporary developmental psychology. Laboratory experience in developmental research. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 320. For Psychology majors only. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

### **PSCH 324. Cultural Psychology. 3 hours.**

A survey of theory, methods, and research in culture and psychology. Examination of how culture is defined and studied and how it affects development, socialization, personality, interpersonal relations, and mental health. Course Information: Prerequisite(s): PSCH 100 and Grade of C or better in PSCH 242.

### **PSCH 331. Laboratory in Community and Prevention Research. 3 hours.**

Examines how researchers conceptualize, design, implement, and evaluate school and community programs to enhance competence, promote empowerment, and prevent behavioral problems. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 231. For Psychology majors only. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

**PSCH 333. Laboratory in Clinical Psychology. 3 hours.**

Laboratory practicum in self-change processes, empirically validated treatments, experimental psychopathology, and clinical assessment development. Course Information: Extensive computer use required. Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 210 or PSCH 270. For Psychology majors only. Class Schedule: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

**PSCH 340. Psychological Testing. 3 hours.**

Introduction to principles of psychological assessment, with an overview of representative techniques. Particular emphasis is placed on objective tests. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 343. Statistical Methods in Behavioral Science. 4 hours.**

Introduction to statistical inference, probability distributions, sampling, hypothesis testing, correlation and analysis of variance. Course Information: Credit is not given for PSCH 343 if the student has credit for IDS 371. Consult the class schedule for details on method of instruction for this course. Course taught in an online or hybrid format involves heavy computer usage; computer and internet access are required. Prerequisite(s): PSCH 242 and ENGL 161 with a minimum grade of C; MATH 105 or MATH 108 (or the equivalent) with a minimum grade of C or satisfactory completion of Math 090. For psychology majors or students in the Neuroscience degree program only. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

**PSCH 350. Sensation and Perception. 3 hours.**

Survey of theories and empirical findings in the study of sensation and perception. Emphasis on human vision and audition as information processing systems. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 351. Laboratory in Perception. 3 hours.**

Laboratory practicum in sensation and perception. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 350. For psychology majors or students in the neuroscience degree program only. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Laboratory.

**PSCH 352. Cognition and Memory. 3 hours.**

Survey of experimental findings in human learning, memory, attention, knowledge representation, problem solving, conceptual behavior, and psycholinguistics. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 353. Laboratory in Cognition and Memory. 3 hours.**

Laboratory practicum in memory, psycholinguistics, problem solving, and reasoning. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 352. For psychology majors or students in the neuroscience degree program only. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

**PSCH 354. Knowledge Acquisition. 3 hours.**

Introduction to belief formation, conceptual change, cognitive development, discovery and invention, schema abstraction, skill acquisition and other cognitive change processes. Research and practical applications. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 360. Learning and Conditioning. 3 hours.**

Principles of learning; emphasis on parameters of acquisition, extinction and retention of classical and instrumental conditioning and stimulus control of reflexive and voluntary behavior. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 361. Laboratory in Learning and Conditioning. 3 hours.**

Laboratory practicum in conditioning and simple learning using animal subjects. Emphasis on operant conditioning. Course Information: Animals used in instruction. Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 360. For psychology majors or students in the neuroscience degree program only. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

**PSCH 363. Laboratory in Behavioral Neuroscience. 3 hours.**

Laboratory practicum and demonstrations of research techniques used to study the physiological bases of behavior. Course Information: Animals used in instruction. Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 262 or BIOS 286. For psychology majors or students in the neuroscience degree program only. Class Schedule Information: To be properly registered, students must enroll in one Lecture/Discussion and one Laboratory.

**PSCH 366. Cognitive Neuroscience. 3 hours.**

Survey of neural basis of cognitive processes; perceptual and motor systems, attention, memory, symbolic representation, executive control of behavior. Course Information: Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 367. Laboratory in Cognitive Neuroscience. 3 hours.**

Laboratory practicum in attention, memory, decision-making and symbolic cognitive processes. Course Information: Prerequisite(s): PSCH 343 and credit or concurrent registration in PSCH 350 or PSCH 366. For psychology majors or students in the neuroscience degree program only. Class Schedule: To be properly registered, students must enroll in one Lecture and one Laboratory.

**PSCH 380. Positive Psychology: The Science of Well-Being. 3 hours.**

An introduction to the study of topics related to happiness and the positive aspects human experience and overall well-being. Basic areas of research in positive psychology and the methods that researchers use to study happiness. Course Information: Prerequisite(s): PSCH 210 or PSCH 231 or PSCH 312; and Grade of C or better in PSCH 242.

**PSCH 381. Psychology of Interviewing. 3 hours.**

The goals of the course are to teach theory, research and practice of interviewing. Students will develop skills for interviewing individuals. Course Information: Prerequisite(s): PSCH 210 or PSCH 231 or PSCH 270 or PSCH 271 or PSCH 312; and Grade of C or better in PSCH 242. For psychology majors only.

**PSCH 382. Psychological Interventions. 3 hours.**

Application of psychological theories and principles used in psychotherapy and behavior change. Emphasis will be on models for assessment of change, the evaluation of psychotherapy, and selecting appropriate interventions. Course Information: Prerequisite(s): PSCH 210 or PSCH 231 or PSCH 312; and PSCH 270 and a grade of C or better in PSCH 242. For Psychology majors only.

**PSCH 384. Psychology of Groups. 3 hours.**

Application of psychological theory and research to group functioning and change. Survey of intervention methods emphasizing the development of competence in group participation and leadership. Course Information: Prerequisite(s): PSCH 210 or PSCH 231 or PSCH 312; and Grade of C or better in PSCH 242.

**PSCH 385. Field Work in Applied Psychology. 6 hours.**

Supervised practicum as a paraprofessional worker for a minimum equivalent of one day (8 hours) per week in a mental health, developmental disabilities, or industrial organizational setting. Course Information: 6 hours. Prerequisite(s): PSCH 340 and PSCH 343; and PSCH 381 or PSCH 382 or PSCH 386. For applied psychology majors only. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Practice.

**PSCH 386. Crisis Counseling Techniques I. 3 hours.**

Application of psychological theories and principles used for telephone crisis counseling, crisis intervention, and referral. Emphasis will be on models for interviewing and assessment and appropriate intervention in crisis situations. Course Information: Prerequisite(s): Grade of C or better in PSCH 242; and PSCH 210 or PSCH 231 or PSCH 270; and consent of the instructor.

**PSCH 387. Crisis Counseling Techniques II. 1 hour.**

Students will apply skills learned in PSCH 386 as they run weekly support groups providing both peer-to-peer counseling per week in a group format as well as individual peer-to-peer crisis counseling with group members. Course Information: Satisfactory/Unsatisfactory grading only. Field work required. Prerequisite(s): PSCH 386; and consent of the instructor.

**PSCH 394. Special Topics in Psychology. 1-3 hours.**

Lectures devoted to an announced topic. Course Information: May be repeated to a maximum of 6 hours. Students may register in more than one section per term. Prerequisite(s): Grade of C or better in PSCH 242.

**PSCH 396. Directed Research. 1-3 hours.**

Participation in ongoing research in psychology under the direction of a faculty member. A final report describing the research and its theory is required. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. Either PSCH 396 or an additional laboratory course is required for High Distinction in Psychology. Prerequisite(s): PSCH 242 and consent of the instructor. Must consult instructor for permission to enroll.

**PSCH 397. Readings in Psychology. 1-3 hours.**

Bibliographic research on a special topic under the direction of a faculty member. Paper is required for course credit. Course Information: May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. Prerequisite(s): PSCH 343 and consent of the instructor. Must consult instructor for permission to enroll.

**PSCH 399. Independent Research. 1-4 hours.**

Individual research on a special topic under the direction of a faculty member. A paper is required for course credit. Course Information: May be repeated. Students may register in more than one section per term. A combined maximum of 8 hours of credit in PSCH 387, PSCH 396, PSCH 397, and PSCH 399 may be applied toward the degree. Required for earning Highest Distinction in Psychology. Prerequisite(s): PSCH 343; and consent of the instructor and the director of undergraduate studies.

**PSCH 411. The Psychology of Racism. 3 hours.**

Within our country's context of racism, you might ask yourself: What is my role in resisting racism? How might I (as a Person of Color) heal from racism and work in solidarity with other People of Color to dismantle White supremacy? Course Information: Prerequisite(s): PSCH 242, graduate standing, or consent of Instructor.

**PSCH 415. Social Bases of Health Behavior. 3 hours.**

Psychological theory and research concerning the coronary-prone personality, pain management, controlling adherence to medical regimens, biofeedback, smoking, and weight control. Course Information: Prerequisite(s): PSCH 270 and consent of the instructor, or graduate standing.

**PSCH 417. Psychology and Law. 3 hours.**

Application of psychological theories to the development, operation and effects of law; evaluation of different and similar approaches of law and psychology. Course Information: Prerequisite(s): PSCH 312 or consent of instructor.

**PSCH 420. Advanced Social Development of Children in an Urban Context. 3 or 4 hours.**

Examines some general principles of children's (3 -14 years old) social development and socialization and the applicability of these principles for urban-dwelling children. Course Information: Same as EPSY 420. 3 undergraduate hours. 4 graduate hours.

**PSCH 422. Advanced Developmental Psychology and Educational Processes. 3 hours.**

Focuses on cognitive and social development from birth to early adolescence. Examines relations between development, learning, and educational processes. Course Information: Same as ED 422. Prerequisite(s): PSCH 100 and any one from EPSY 210, PSCH 259, PSCH 320 and consent of the instructor; or graduate standing.

**PSCH 423. Characteristics of Early Adolescence. 3 hours.**

Physiological, social, emotional and cognitive development of early adolescence. The relationship between these developmental characteristics and success in the middle grades. Course Information: Same as EPSY 446. Prerequisite(s): Admission to a program in psychology or education; or approval of the College of Education or consent of the instructor, EPSY 210 or EPSY 255 or ED 421 or ED 422.

**PSCH 424. Social and Emotional Learning: Research, Practice, and Policy. 3 or 4 hours.**

Research, theory, educational practices, and federal/state policies that promote the social, emotional, and academic competence of students who are in preschool, middle school, or high school. Course Information: Same as ED 424. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): PSCH 343 or equivalent; or consent of the instructor. Recommended background: Experience working with children or adolescents.

**PSCH 429. Constructivist Approaches to Development: Piaget and Vygotsky. 3 hours.**

Piaget's and Vygotsky's theories of development of knowledge. Empirical and logico-mathematical forms of knowledge. Thought and action. Thought and language. Course Information: Same as EPSY 429. Prerequisite(s): EPSY 255 or EPSY 426 or ED 422; and senior standing or above; or consent of the instructor.

**PSCH 443. Advanced Statistics. 3 hours.**

Design and analysis of experiments: between, within factorial and mixed factorial designs and introduction to multiple regression. For students planning research careers or advanced degrees. Course Information: 3 hours. Prerequisite(s): PSCH 343. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.



**PSCH 459. Cognitive Methods. 3 hours.**

Hands-on training in the methods of cognitive psychology, especially computational modeling and the analysis of verbal protocols and other types of trace data. Course Information: Prerequisite(s): Graduate standing or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

**PSCH 483. Neuroanatomy. 4 hours.**

Organization of the nervous system, with an emphasis on mammals. Course Information: Same as BIOS 483 and NEUS 483. Animals used in instruction. Prerequisite(s): BIOS 272 or BIOS 286 or BIOS 325 or PSCH 262; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

**PSCH 484. Neuroscience I. 3 hours.**

Neuroscience as an integrative discipline. Neuroanatomy of vertebrates, neural development, cellular neurobiology, action potential mechanisms, synaptic transmission and neuropharmacology. Course Information: Same as BIOS 484 and PHIL 484. Prerequisite(s): BIOS 286 or PSCH 262.

**PSCH 485. Neuroscience II. 3 hours.**

Integrative neuroscience, including sensory and motor systems; learning, memory, and language; pathology of nervous systems; philosophical perspectives, and modeling. Course Information: Same as BIOS 485 and PHIL 485. Prerequisite(s): BIOS 286 or PSCH 262.

**PSCH 494. Special Topics in Psychology. 1-4 hours.**

Advanced treatment of an announced topic. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Graduate standing or consent of the instructor.

**PSCH 503. Writing for Social Scientists. 3 hours.**

Training to write for the social sciences, including how to edit effectively, formulate a thesis statement, construct an argument, and begin and conclude a paper. Course Information: Previously listed as PSCH 403. Prerequisite(s): Graduate standing or consent of the instructor.

**PSCH 505. Advanced History of Psychology. 3 hours.**

The history of scientific psychology, with an emphasis on the forerunners of major contemporary research problems. Course Information: Prerequisite(s): Graduate standing.

**PSCH 507. Emerging Research Issues. 1 hour.**

Weekly seminar that introduces Ph.D. students in psychology to the current research of each faculty member in the department of psychology. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 2 hours. Prerequisite(s): Consent of the instructor.

**PSCH 508. Colloquium on the Teaching of Psychology. 1 hour.**

Required training to prepare graduate students for contact teaching in the Department of Psychology. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): Consent of the instructor.

**PSCH 512. Attitudes and Social Cognition. 3 hours.**

Survey of theory and research in social psychology, including attitudes and social cognition. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 513. Interpersonal Relations and Group Processes. 3 hours.**

Survey of theory and research in social psychology, including interpersonal relations and group processes. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 516. Research Methods in Social Psychology. 3 hours.**

Critical analysis of current theories in social psychology. Course Information: Prerequisite(s): PSCH 512 and PSCH 513 and PSCH 514; or consent of the instructor.

**PSCH 517. Social Psychology of Education. 4 hours.**

Social psychological factors influencing academic and social outcomes in schools. Achievement motivation, peer relations, social values in relation to student characteristics and school practice. Course Information: Same as EPSY 502. Prerequisite(s): Admission to the Ph.D. in Education program or the Ph.D. in Psychology program; or consent of the instructor.

**PSCH 518. Seminar in Social and Personality Psychology. 1-4 hours.**

Critical discussion of selected topics, such as helping and altruism, social judgment, group processes, attitude formation and change. Content varies. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

**PSCH 519. Current Topics in Social Psychology. 1 hour.**

Discussion of recently published research and ongoing research by department faculty and graduate students. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 522. Human-Computer Interaction. 4 hours.**

The computer-user interface: media, languages, interaction techniques, user modeling. Human factors in software development. Theory, experimental methods, evaluation, tools. Project required. Course Information: Same as CS 522 and COMM 522. Prerequisite(s): CS 422; or consent of the instructor.

**PSCH 525. Achievement Motivation. 4 hours.**

The psychology of achievement motivation will be explored from the perspectives of personality, social, and educational psychology. Course Information: Same as EPSY 530. Prerequisite(s): Graduate standing in education or psychology or consent of the instructor.

**PSCH 526. Lifespan Development. 3 hours.**

Review of factors influencing continuity and change at genetic, physiological, psychological and social levels across the lifespan. Course Information: Prerequisite(s): Consent of the instructor and graduate standing.

**PSCH 531. Community Research. 3 hours.**

Intro to research design for community and action research; data collection techniques; perspectives on the relationship between researchers and communities; ethical issues; and philosophies of science informing community-based research.

**PSCH 533. Advanced Community and Prevention Research. 3 hours.**

Overview of community psychology theory and intervention research in areas like prevention, empowerment, diversity, ecology, competence enhancement, and social change from historical and contemporary perspectives. Course Information: Prerequisite(s): Graduate standing in psychology or consent of the instructor.

**PSCH 537. Seminar in Action Research. 3 hours.**

Supervised action research in community settings including entry, data collection, ethics, feedback and report preparation. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Graduate standing in the Community and Prevention Research Specialization of the Ph.D. in Psychology program or consent of the instructor.

**PSCH 538. Seminar in Community and Prevention Research. 1-4 hours.**

Examination of a selected topic in community and prevention research. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

**PSCH 539. Current Topics in Community and Prevention Research. 1 hour.**

Ongoing seminar with faculty and graduate students to discuss contemporary issues in community and prevention research. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 540. Research and Reflexivity. 3 hours.**

Highlights some of the issues relevant to doing research with diverse groups, such as race/ethnicity, gender, social class, age, disability. Course Information: Theories, approaches, and strategies to support critical reflexive practice and decision making throughout the research and knowledge construction process.

**PSCH 541. Statistical Programming in Psychology. 1 hour.**

An introduction to applications of statistical programming and computing in psychological research. Course Information: Satisfactory/Unsatisfactory grading only. Extensive computer use required. Prerequisite(s): Graduate standing in Psychology or consent of the instructor.

**PSCH 542. Mixed-Effects Models. 3 hours.**

Provides a comprehensive overview of mixed effect modeling and its application to psychology. Teaches the basics of this method and the specific applications of this method under different research traditions. Course Information: Extensive computer use required. Prerequisite(s): PSCH 543 and PSCH 545 and Graduate standing in psychology; or consent of the instructor.

**PSCH 543. Research Design and Analysis I. 4 hours.**

Experimental design and statistical analyses for experimental and quasi-experimental designs, interpretation and writing results in APA style, and statistical computing software. Course Information: Extensive computer use required. Prerequisite(s): Graduate standing in psychology or consent of the instructor.

**PSCH 544. Structural Equation Modeling for Latent Variables. 3 hours.**

A comprehensive overview of factor analysis and structural equation modeling and its application to psychology, and provide a base for more advanced study of latent variable methods. Course Information: Extensive computer use required. Prerequisite(s): PSCH 543 and PSCH 545; and Graduate standing in Psychology; or Consent of Instructor.

**PSCH 545. Research Design and Analysis II. 4 hours.**

Experimental design and statistical analyses for experimental and quasi-experimental designs, interpretation and writing results in APA style, and statistical computing software. Course Information: Extensive computer use required. Prerequisite(s): PSCH 543 and graduate standing in psychology; or consent of the instructor.

**PSCH 547. Data Science for Psychological Science. 3 hours.**

Provides a comprehensive overview of data science (data wrangling, machine learning, and deep learning) and its application to psychology. Course Information: Extensive computer use required. Prerequisite(s): PSCH 543 and PSCH 545 and Graduate standing in psychology, or consent of the instructor.

**PSCH 548. Seminar in Methods and Measurement. 3 hours.**

Seminar on a preannounced topic in methodology, measurement, data science, or quantitative psychology. Course Information: May be repeated. Students may register in more than one section per term. Extensive computer use required. Prerequisite(s): Graduate standing in Psychology, or consent of the instructor.

**PSCH 550. Proseminar in Educational Psychology I: Socialization into The Field. 2 hours.**

Socializes students into Educational Psychology, and covers professional development (e.g., importance of CV, presenting at a conference, IRB, grant proposals), and areas of emphasis (e.g., learning, assessment, statistics, measurement). Course Information: Same as EPSY 500. Satisfactory/Unsatisfactory grading only. Prerequisite(s): Admission to the Ph.D. in Educational Psychology or Education programs; or consent of the instructor.

**PSCH 551. Theories of Educational Psychology. 4 hours.**

Covers critical theories that drive the research and practice of educational psychology, including theories and research that pertain to student achievement, motivation, beliefs, assessments, teaching, and learning across the life span. Course Information: Same as EPSY 501. Prerequisite(s): EPSY 500 and admission to the Ph.D. in Education program or the Ph.D. in Psychology program; or consent of the instructor.

**PSCH 552. Cognitive Sciences. 3 hours.**

Empirical data and theories of the cognitive science bases of attention, executive function, language, learning, memory, motivation, perception and action. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 553. Memory. 3 hours.**

Theories and models of memory systems across humans and animals. Course Information: Prerequisite(s): Graduate standing; or PSCH 352 and consent of the instructor.

**PSCH 554. Language. 3 hours.**

Language representation, production, comprehension, and acquisition. Course Information: Same as COMM 554 and LING 554. Previously listed as PSCH 454. Prerequisite(s): Graduate standing or consent of the instructor.

**PSCH 555. Thinking. 3 hours.**

Problem solving, reasoning, thinking. Course Information: Previously listed as 455. Prerequisite(s): Graduate standing; or consent of the instructor.

**PSCH 557. Skill and Knowledge Acquisition. 3 hours.**

Skill and knowledge acquisition, including procedural and cognitive functions. Course Information: Previously listed as PSCH 447. Prerequisite(s): Consent of instructor.

**PSCH 558. Seminar in Brain and Cognitive Sciences. 1-4 hours.**

Detailed critical review of selected topics in cognitive psychology: emphasis on current research and theoretical developments. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Graduate standing; and consent of the instructor.

**PSCH 559. Current Topics in Cognitive Psychology. 1 hour.**

Discussion of current research and theoretical issues in broad areas of cognitive psychology. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 560. Advanced Learning. 3 hours.**

Methods, results, and interpretation of experimental studies of basic learning processes in animal and human subjects. Course Information: Previously listed as PSCH 460.

**PSCH 562. Neural Basis of Learning and Memory. 3 hours.**

Theory and research on the anatomical, electrophysiological and chemical bases of learning and memory in humans and other animals. Course Information: Previously listed as PSCH 462.

**PSCH 564. Behavioral Psychopharmacology: Pharmacological Bases of Behavior. 3 hours.**

Behavioral psychopharmacology. This includes the relationship of pharmacokinetics, pharmacodynamics, major neurotransmitter systems, and non-neurotransmitter mechanisms to behavior, behavioral pharmacology models of normal functioning and psychiatric illness, and pharmacology in clinical contexts, in addiction, and in special populations (e.g. children, aging, pregnancy). Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 565. Advanced Cognitive Neuroscience. 3 hours.**

Empirical data and theories of the neural basis of cognitive processes; attention, memory, language, executive control of behavior. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 566. Motivation. 3 hours.**

Survey of mechanisms underlying motivated behaviors in animals and humans. Includes behaviors directed at survival and growth. Course Information: Previously listed as PSCH 466.

**PSCH 568. Seminar in Behavioral Neuroscience. 1-4 hours.**

Current research issues and studies in Behavioral Neuroscience are discussed in terms of methodology and theory. Topic to be announced each semester. Course Information: May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 569. Current Topics in Brain and Cognitive Sciences. 1 hour.**

Presentation of current research projects by staff and students. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 570. Personality Psychology. 3 hours.**

Contemporary research in personality psychology and a review of theoretical approaches to the study of personality structure and processes. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 571. Psychopathology. 3 hours.**

Detailed consideration of disorders of behavior including description, etiology, prognosis and experimental and clinical research; consideration of development and functions of classification systems of abnormal behavior and their relation to clinical decision making. Course Information: Prerequisite(s): PSCH 570 and consent of the instructor.

**PSCH 574. Techniques of Psychological Intervention. 3 hours.**

Intervention skills, modalities, concepts and techniques for different patient populations and presenting problems. Topics will vary each semester and include: cognitive-behavior therapy, psychodynamic therapy, group therapy and family therapy. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): PSCH 571 and consent of the instructor.

**PSCH 575. Psychotherapy Theory and Research. 3 hours.**

Research methods and theory related to psychotherapy and behavior change, with an emphasis on design, evaluation, and results of empirically-based psychotherapy studies. Course Information: Prerequisite(s): PSCH 571 and consent of the instructor.

**PSCH 577. Ethics and Professional Development. 3 hours.**

Ethical dimensions of psychology including clinical practice, research and teaching; ethical codes, confidentiality, client rights, dual relationships, legal issues, competency, social responsibility, moral reasoning, values. Course Information: Prerequisite(s): Graduate standing in psychology or consent of the instructor.

**PSCH 578. Seminar in Clinical Psychology. 1-4 hours.**

In-depth coverage of selected current topics in clinical psychology. Emphasis is on current research. Course Information: Prerequisite(s): Consent of the instructor.

**PSCH 579. Current Topics in Clinical Psychology. 1 hour.**

Research and case presentations in clinical psychology. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 581. Practicum in Interviewing. 2 hours.**

Interviewing practicum through the Office of Applied Psychological Services. Students observe and conduct clinical interviews under supervision. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Clinical Practice.

**PSCH 582. Practicum in Psychological Assessment. 4 hours.**

Supervised practice in psychodiagnostic testing in various facilities associated with the graduate training program in clinical psychology. Course Information: Satisfactory/Unsatisfactory grading only. Students are expected to register for this course for at least 2 semesters. Students may register for more than one section per term. Prerequisite(s): Consent of the instructor. Open only to clinical psychology graduate students. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Clinical Practice.

**PSCH 583. Practicum in Clinical Intervention. 4 hours.**

Instruction and supervision in the practice of psychological intervention, application of basic psychological principles to varied parent populations. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Students may register in more than one section per term. Prerequisite(s): PSCH 574 and consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Practice.

**PSCH 584. Practicum for Clinical Trainees on Assessment, Intervention and Research. 0-3 hours.**

Presentation and discussion of trainee assessment, intervention, and research projects. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Acceptance into either an NIMH- or OAPS- sponsored training program. Class Schedule Information: To be properly registered, students must enroll in one Conference and one Practice.

**PSCH 586. The Science of Teaching Psychology. 3 hours.**

Seminar on theories, research, and evidence-based techniques for teaching undergraduate Psychology courses. Prepares students for PSCH 587. Course Information: Extensive computer use required. Prerequisite(s): Consent of the instructor. Recommended background: Completion of Master's degree in Psychology or related discipline.

**PSCH 587. Practicum in Teaching Psychology. 6 hours.**

Provides students who have completed PSCH 586 the opportunity to teach their own undergraduate Psychology course under the supervision of a Psychology Department faculty member. Course Information: Satisfactory/Unsatisfactory grading only. Extensive computer use required. Prerequisite(s): PSCH 586; and consent of the instructor. Recommended background: Completion of Master's degree in Psychology or related discipline. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

**PSCH 588. Topics Quantitative Psychology. 1-4 hours.**

An introduction to applications of statistical programming and computing in psychological research. Course Information: Satisfactory/Unsatisfactory. May be repeated. Extensive computer use required. Prerequisite(s): Graduate standing in psychology or consent of the instructor.

**PSCH 591. Research Apprenticeship. 2-3 hours.**

Directed training in conducting research in specific areas of Psychology, and in developing skills related to the research. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 5 hours. Prerequisite(s): Consent of the instructor.

**PSCH 594. Advanced Special Topics in Psychology. 1-4 hours.**

Advanced treatment of an announced topic. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

**PSCH 595. Methods and Measurement in Clinical Psychology. 2 hours.**

Provides students with an overview of research methods, process concerns, ethics, and issues that are relevant to the field of clinical psychology. Course Information: May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 596. Independent Study. 1-12 hours.**

Research on or study of topics not included in regular classes or thesis and dissertation research. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.

**PSCH 598. Thesis Research. 0-16 hours.**

Research on the topic of the master's thesis. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated to a maximum of 12 hours. Prerequisite(s): Consent of the instructor.

**PSCH 599. Dissertation Research. 0-16 hours.**

Research on the topic of the doctoral dissertation. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Consent of the instructor.