PSYCHOLOGY

The Department of Psychology introduces students to the content and methods of the science of psychology. Students survey the foundations of the field, learn about statistics and experimental design, and have an opportunity to pursue specific interests through upper-level seminars, applied internships, and supervised and independent research. The psychology major prepares students for graduate work in areas of psychology, or for work in related fields such as medicine, law, education, social work, and public policy. Students with a degree in psychology are also particularly well suited for any entry-level position that demands a solid liberal arts education.

Departmental requirements for a degree in Psychology are laid out below. While they provide a broad overview of the field, there are also opportunities both within and outside of the major to explore specific interests.

• Students interested in cognitive and/or behavioral neuroscience should focus on the Psychology courses that comprise the Behavioral Neuroscience concentration, along with Philosophy courses on philosophy of mind and of language, and Biology courses in genetics, animal behavior, physiology, and evolutionary theory.
• Those with interests in mental health should consider Psychology courses on abnormal psychology, psychotherapy, psychological testing, neuropsychology, and learning, as well as Sociology courses on social work and the courses, drawn from a variety of departments that comprise the Health Studies minor.

Throughout their time at Fairfield, students should work with their advisors to refine their interests. Together they can then identify specific courses within and outside of the major that will enrich their understanding of those areas of interest.

Programs

• Behavioral Neuroscience Major (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology/behavioral-neuroscience-major)
• Behavioral Neuroscience Minor (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology/behavioral-neuroscience-not-majoring-psychology)
• Psychology Major (BA) (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology/ba-psychology) (Class of 2020 and earlier)
  • Concentration in Behavioral Neuroscience
• Psychology Major (BS) (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology-bs-psychology)
  • Concentration in Behavioral Neuroscience
• Psychology Minor (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology/behavioral-neuroscience-not-majoring-psychology)
• Five-Year Integrated Bachelor and Master of Arts in Industrial/Organizational Psychology (http://catalog.fairfield.edu/undergraduate/arts-sciences/psychology/bs-psychology)

Note: Students majoring in Psychology may not declare a simultaneous major or minor in Behavioral Neuroscience.

Courses

PY 0101 General Psychology
This course introduces the science of mental processes and behavior by addressing a range of questions including: How is brain activity related to thought and behavior? What does it mean to learn and remember something? How do we see, hear, taste, and smell? How do we influence one another’s attitudes and actions? What are the primary factors that shape a child’s mental and emotional development? How and why do we differ from one another? What are the origins and most effective treatments of mental illness?

PY 0111 Developmental Psychology for Non-Majors
Attributes: UDIV U.S. Diversity
The course encompasses a developmental psychology approach to the growth of the individual from birth to old age, tracing motor, perceptual, language, cognitive, and emotional growth and emphasizing normal development. Psychology majors and students who have taken PY 0211 or PY 0212 may not take this course.

PY 0121 Fundamentals of Social Psychology
This course surveys the major areas of concern in social psychology, emphasizing current issues and research in the fields of social influence and conformity, human aggression, prejudice, interpersonal attraction, propaganda, and persuasion. Psychology majors and students who have taken PY 0221 may not take this course.

PY 0122 Psychology and the Law
Implicit psychological assumptions about human behavior and how it should be controlled form the basis for the legal system, particularly our criminal justice system, from its code to its enforcement. This course examines those assumptions in light of current psycho-legal theory and research. It covers the treatment of traditional psychiatric populations (the mentally ill, mentally retarded, homeless) by the justice system in contrast to that received by non-psychiatric populations; clinical issues such as the insanity defense, predicting dangerousness, the validity of psychiatric examinations and lie detectors; and jury selection, eyewitness testimony, decision-making, sentencing, and parole.

PY 0124 Introduction to Industrial and Organizational Psychology
This course introduces students to the field, contributions, and methods of industrial/organizational psychology. It covers the history of this branch of applied psychology and the psychologist’s role, along with other scientist-practitioners concerned with the world of work, in developing and maintaining human work performances and work environments. Topics include recruitment, selection, training and development, and appraisal of individuals and groups; development and change of organizational cultures; and relations between organizations and their stakeholders.

PY 0131 Abnormal Psychology for Non-Majors
Attributes: HSSS Health Studies: Social Science
This course introduces students to the field of abnormal behavior, presenting the classic behavior patterns in the classification system and discussing the possible causes and remediation of such. Psychology majors and students who have taken PY 0231 may not take this course.
This introductory course in statistical methodology and analysis includes descriptive statistics such as frequency distributions, central tendency, variability, and correlation as well as an introduction to probability, sampling theory, and tests of significance including the t-test, chi-squared, ANOVA, and non-parametric statistics. This course is open to majors in the behavioral, biological, and physical sciences. The lab complements the course by giving students supervised computation and problem-solving exercises. Note: This course does not fulfill any core requirements.

**PY 0201L Statistics Lab**

**Attributes:** EVAP Environmental Studies: Applied Professional Skills

**Corequisite:** PY 0201L.

Building on PY 0201, this course teaches students to read, evaluate, design, conduct, and report psychological research. The course emphasizes critical thinking and effective oral and written communication. Students work through several different research projects.

**PY 0211 Developmental Psychology for Majors**

**Prerequisite:** PY 0101.

Using a research-oriented approach, this course focuses on the principal themes, processes, and products of human development from conception through adolescence. Students who have taken PY 0111 or PY 0212 may not take this course.

**PY 0212 Developmental Psychology for Majors with Lab**

**Prerequisite:** PY 0101.

Although the content of this course is identical to PY 0211, it offers psychology majors the opportunity to participate in a laboratory experiential learning component in community partner preschool classrooms. Specific hands-on assignments complement course material. Students who have taken PY 0111 or PY 0211 may not take this course.

**PY 0215 Adult Development and Aging**

**Prerequisite:** PY 0101.

This course examines the theoretical underpinning and current research related to a number of key issues in the field of adult development and aging including physical, cognitive, and social-emotional changes, diseases, and disorders, as well as successful aging and resiliency.

**PY 0217 Cross-Cultural Perspectives on Lifespan Development**

**Prerequisite:** PY 0111 or PY 0211 or PY 0212.

This course explores various developmental processes and cultural practices across the lifespan such as rites of passage, marriage, parenting, and gender equality from cultures across the globe. How do different cultures view various developmental milestones? What is similar across cultures? What is different? Ultimately, from a psychological perspective, what exactly is culture? And what variations in the course of development can be traced to the influence of culture?

**PY 0221 Social Psychology**

**Prerequisite:** PY 0101.

This course surveys the major areas of concern in social psychology, emphasizing current issues and research in the fields of social influence and conformity, human aggression, prejudice, interpersonal attraction, propaganda, and persuasion. Students who have taken PY 0121 may not take this course.

**PY 0222 Stereotyping, Prejudice, and Discrimination**

**Attributes:** PJST Peace and Justice Studies, UDIV U.S. Diversity

**Prerequisite:** PY 0101.

This course will familiarize students with basic and applied social psychological research on stereotyping, prejudice, discrimination, and minority experience. After considering the cognitive and motivational factors that contribute to stereotyping and prejudice, students will proceed to examine prejudice in the "real world," exploring literature on discrimination-related policies, effects of stereotyping, prejudice, and identity on achievement and status, and prejudice reduction programs. The course will take a primarily empirical approach, focusing on the ways in which scientific methods and empirical evidence can inform our understanding of these emotionally-charged and socially consequential issues.

**PY 0231 Abnormal Psychology for Majors**

**Prerequisite:** PY 0101.

This advanced course in abnormal behavior offers an in-depth analysis of current research and theories of psychopathology. It examines the biological and psychological antecedents of abnormal behavior. The course emphasizes oral and written analysis. Students who have taken PY 0131 may not take this course.

**PY 0232 Theories of Personality**

**Prerequisite:** PY 0101.

The presentation, analysis, and evaluation of theories of personality from Freud through Skinner broadens student understanding of the normal human personality in terms of theoretical structure, function, and dynamics, while enriching theoretical and historical understanding of the topic.

**PY 0233 Gender and Mental Health**

**Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** PY 0101.

This course will explore the relationship between gender and mental health. Topics to be discussed include gender identity, gender differences in development throughout the lifespan, the impact of social and societal gender expectations on functioning, as well as gender differences in the response to trauma and victimization. The course will also include an in-depth examination of sex differences in clinical disorders such as depression, anxiety, eating disorders, PTSD, and personality disorders.

**PY 0234 Theories in Psychotherapy**

**Prerequisite:** PY 0131 or PY 0231.

This course explores similarities and differences across a wide range of psycho-therapeutic endeavors by means of lectures and videos. The course covers traditional psychoanalytic techniques and more recent innovations.
PY 0236 Human Neuropsychology  
**Prerequisites:** PY 0101 or PY 0261.

Human neuropsychology is a branch of psychology that focuses on functional structures and systems of the human brain and how they support various higher-order psychological processes (e.g., learning, attention, executive functioning, higher-order thinking, memory, language, emotion, and motor skills). This course thus concentrates on the brain-behavior relationships beyond the cellular-molecular level, with an emphasis on typical lifespan development and common neuropathological syndromes (e.g., strokes, dementia, and traumatic brain injury) in relation to functional structures and systems of the human brain. Assessment and treatment interventions of neuropsychological disorders are addressed within this context.

PY 0237 (Community Mental Health)  
**Prerequisite:** PB 0101 or PY 0101.

This course will provide an overview of the social and psychological foundations of community behavioral and mental health practice. Using psychological knowledge of healthy human development across the lifespan, major community mental health issues will be explored. Particular emphasis will be placed on identifying risk and protective factors relevant to the development of effective preventative and remedial interventions to address important community behavioral and mental health problems such as individuals living with chronic mental illness, depression and anxiety, addiction, as well as attention to the issues related to specific populations such as the LGBTQ community, individuals living in violent neighborhoods, veterans and military families, immigrants, and the elderly.

PY 0238 Psychological Testing  
**Prerequisites:** PY 0101, PY 0201.

This course offers an introduction to the principles of psychological test construction, administration and interpretation, and reviews the roles that these tests have in broad clinical assessment and research. Specific evaluation of test reliability and validity are applied to test construction and to various published tests of intelligence, achievement, personality, and neuropsychological functioning.

PY 0251 Cognitive Psychology  
**Prerequisite:** PY 0101 or PY 0261.

How can we study the mind? This course surveys topics in cognitive psychology, including attention, memory, thought, imagery, language, problem solving, and decision making. Through lectures, readings, demonstrations, and exercises, students learn about how we think and about scientific explorations of the mind.

PY 0252 Learning and Applied Behavior Analysis  
**Prerequisite:** PY 0101 or PY 0261.

This course focuses on the environmental determinants of behavior and behavior change. The first two-thirds of the course highlight current concepts and research in Pavlovian and operant conditioning, reinforcement, discrimination, extinction, punishment, avoidance learning, etc. The remaining third of the course emphasizes applied behavior analysis (aka: behavior modification); that is, how these learning concepts and principles can be successfully applied to education, parenting, therapy, medicine, and everyday life.

PY 0254 Psycholinguistics  
**Prerequisite:** PY 0101.

This course explores the phenomenon of language in the mind and brain, including: How do children learn their first language(s) and why is it such a different experience for an adult to learn a language? What about second language acquisition? What are language disorders? Is spoken language processed differently from written language? What about sign languages? Class will include discussions, presentations, and hands-on analysis of language data.

PY 0261 Behavioral Neuroscience  
**Prerequisites:** BI 0171, BI 0172; or PY 0261.

Understanding the brain is one of the last and most challenging frontiers of science. Our brain functioning determines what we see, hear, know, think, or feel. Starting with the molecular and cellular machinery of neurons and the anatomy of the nervous system, the course proceeds through the neural basis of sensation, perception, memory, emotion, language, sexual behavior, drug addiction, depression, schizophrenia, etc. The enormous strides made by neuroscience in the last several decades show every sign of continuing and increasing; this course provides the foundation upon which a thorough understanding of brain-behavior relationships can be built.

PY 0262 Sensation and Perception  
**Prerequisite:** PY 0101 or PY 0261.

How do we see, hear, touch, taste, and smell? What about individual differences? This course explores basic sensory mechanisms and perceptual processing, including color, depth, pattern, and motion perception. An experiential learning component facilitates student comprehension of individual differences in sensation and perception. Students will also complete an integrative final project to reinforce their understanding of the vast range of sensory and perceptual concepts addressed throughout the course.

PY 0272 Hormones and Behavior  
**Prerequisite:** BI 0171, BI 0172; or PY 0261.

This upper level course in psychology will provide students with an overview of behavioral neuroscience, with an emphasis on behavioral endocrinology (hormones and behavior). Topics include the description of major classes of hormones, the techniques used in behavioral neuroscience, and the discussion of hormone-mediated behaviors including male and female reproductive behaviors, stress and fear, memory and cognition, parental behaviors, ingestive behaviors, and circadian rhythms. After weekly mini-review sessions of the relevant text, this course will emphasize primary research (journal) articles with student-led discussions.

PY 0274 Drugs and Behavior  
**Attributes:** HSSS Health Studies: Social Science  
**Prerequisite:** PY 0261.

This survey course discusses the psychopharmacological properties of the more significant drugs used for research and by society in general. Drug classes include alcohol and nicotine, depressants and stimulants, tranquilizers, opium derivatives, and hallucinogenic compounds. The course emphasizes drug action sites in the central nervous system as well as behavioral alteration in controlled and uncontrolled environments.

PY 0281 Special Topics (Shell)  
**Prerequisite:** PY 0101 or PY 0261.

This intermediate level course focuses on a specific issue or topic in one of the major areas of psychology, including but not limited to social, cognitive, clinical, developmental, or biological psychology. In successive offerings, the content of this course will vary considerably. Thus, students may take more than one section of the course provided the content is different.
PY 0281D Special Topics: Molecular and Cellular Neuroscience  3 Credits
Prerequisite: BI 0170 or PY 0261.
This foundational neuroscience course is focused on learning about the building block of the central nervous system, the neuron (nerve cell). Understanding the structural, biochemical and biophysical properties of neurons and their role in basic information processing is an important foundation for any student wishing to study more complex neural and behavioral functions. The content of the course will focus on cellular components of the nervous system, genes and neural function, electrical properties of membranes, synaptic transmission, development of the nervous system, and neuroplasticity. Last, throughout the course, the student will be introduced to examples of how abnormalities in the molecular and cellular processes of the brain can lead to neuropsychiatric diseases.

PY 0291 Internship in the Teaching of Psychology  3 Credits
Prerequisite: PY 0101 or PY 0261.
This practicum experience, open to advanced psychology majors, affords students an opportunity to explore teaching psychology as a profession. Under the direct supervision of a faculty mentor, students engage the issues of curriculum development, methods of classroom instruction, selection and use of media resources, test construction, and strategies for the academic and practical motivation of students. Interns observe participating faculty engaged in the profession of teaching and share in some instructional activities. Enrollment by permission only.

PY 0295 Supervised Research  3 Credits
Prerequisite: PY 0101 or PY 0261.
The course provides research training experience in a supervised setting in which students work closely with a faculty mentor on various research projects. Such work may include assisting in designing and running lab research, data analysis, field experience, and library research. This hands-on experience enhances students' understanding of issues in research design and analysis and prepares them for more advanced research opportunities should they choose to pursue them (e.g., independent research). Student researchers are expected to spend a minimum of 10 hours per week in their faculty mentor's lab. Enrollment by permission only.

PY 0321 Current Issues in Social Psychology  3 Credits
This seminar engages with current issues in social psychological research. Although the specific topics covered in the course will change from semester to semester, the course will be structured to present an overview of each topic domain (through review articles and seminal empirical articles) followed by more contemporary readings on the topic and a discussion of current debates and open issues. Throughout the course, students will focus on applying insights from social psychological research to "real world" issues such as increasing individual well-being, supporting and maintaining healthy social relationships, creating more just and equitable communities, and improving judgment and decision-making. Open to senior psychology majors. Permission of instructor is required for junior psychology majors.

PY 0322 Senior Seminar: Health Psychology  3 Credits
Attributes: HSSS Health Studies: Social Science
This course provides an in-depth survey of the discipline of health psychology, framed within the context of socio-cultural factors such as ethnicity, gender, and socio-economic status. Among the topics covered: stress, coping behaviors, biomedical and biopsychosocial models of health and illness, health behaviors, patient-provider communication. The students explore new ways to integrate theory and research with the advances in the science and practice of health psychology and present their work in a final independent project. Open to senior psychology majors. Permission of instructor is required for junior psychology majors and non-majors.

PY 0331 Senior Seminar: Abnormal Child Psychology  3 Credits
Prerequisites: PY 0111 or PY 0211 or PY 0212.
This course provides a survey of the theory and research in the field of clinical psychology related to children and adolescents. More specifically, the seminar explores: the diagnostic characteristics of the major types of child psychological disorders, the etiology of each disorder from the different theoretical perspectives, and effective approaches to treatment and prevention. Open to senior psychology majors. Permission of the instructor required for junior psychology majors.

PY 0332 Senior Seminar: Current Issues in Clinical Psychology  3 Credits
This course provides an in-depth exploration of current research and practice in the field of clinical psychology. Factors that contribute to the etiology, maintenance, identification and treatment of psychological distress will be discussed. The course will also include an in-depth examination of clinical disorders including mood, anxiety, psychotic, eating, traumatic stress, and personality disorders. Treatment, resilience and coping will also be discussed. Open to senior psychology majors. Permission of the instructor required for junior psychology majors.

PY 0351 Senior Seminar: False Memories  3 Credits
Can people repress memories for childhood trauma? How accurate are eyewitnesses at reporting what they saw? Although most of the time, our memories serve us quite well, many of the strategies and mechanisms that help us remember accurately can also lead to errors. This course examines various types of memory distortions and what they can tell us about the mechanisms of memory. Through readings and class discussions, students will explore memory addressing confusions between real and imagined memories, the reliability of eyewitness recollections, children's suggestibility, as well as clinical issues such as repression and dissociation from a cognitive perspective. Open to senior psychology majors. Permission of instructor is required for junior psychology majors.

PY 0361 Senior Seminar: Current Issues in Behavioral Neuroscience  3 Credits
Prerequisite: PY 0261.
This senior seminar will provide students with an overview of current research in behavioral neuroscience, with particular emphasis on behavioral endocrinology (hormones and behavior). After a brief overview of a particular topic, including discussion of brain areas involved and techniques used to examine them, this course will emphasize current research articles in neuroscience. Specifically, how is behavioral neuroscience used to examine mechanisms behind certain behaviors and to treat anomalies? Areas of focus include clinical conditions (Alzheimer's, autism, post-partum depression) and addictive behaviors/ drugs of abuse (alcohol, cannabis, anabolic androgenic steroids). Open to senior psychology majors. Permission of the instructor required for junior psychology majors and non-majors.
PY 0365 Neuroanatomy and Behavior 3 Credits
Corequisite: PY 0365L.
Prerequisite: PY 0261.
This hands-on laboratory course in behavioral neuroscience will introduce students to comparative neuroanatomy using rat, sheep, and human brain specimens. Students will participate in animal handling, brain sectioning, small animal surgeries, and drug administration, and will gain experience with rodents on a number of behavioral assays, including tests for spatial memory and reproductive behaviors. In small group exercises, students will become proficient in critiquing and presenting scientific literature, and will help in all stages of an experiment, from design to data collection to analysis and the writing up and presentation of results. In addition, students may work on a service-learning project with a community partner during the semester. Enrollment by permission only.

PY 0365L Neuroanatomy and Behavior Lab 1 Credit
Corequisite: PY 0365.

PY 0381 Senior Seminar: Special Topics (Shell) 3 Credits
In this seminar, students undertake an in-depth study of a current topic in psychology, using mostly primary sources. Coursework emphasizes discussion and writing. Open to junior and senior psychology majors or by permission of instructor.

PY 0381A Special Topics: Psychometrics: Construct Design and Measurement Theory 3 Credits
Prerequisites: PY 0202; senior standing.
Have you ever noticed something about how people act that you want to learn more about? Are you interested in learning how to develop or improve a tool to measure human behavior or thought? In this course we will go through a process called construct development, scientifically exploring theories through the lens of item response theory. You will research and develop your idea, create questions, gather and analyze responses to your questions, and revise your construct. Students will present their constructs, critique each other's work and learn about various practical applications of both classical test and item response theories. Open to senior psychology majors. Permission of the instructor required for junior psychology majors and non-majors.

PY 0391 Internship in Applied Psychology 1-3 Credits
Senior psychology majors gain practical, career-related experience in a variety of supervised field settings through the internship program. Student interns choose from a wide selection of placements in traditional psychology-related programs: mental health, social service, school psychology, early child and special education, probation, and hospital administration. Intern placements in related disciplines include human factors engineering, human resource development, advertising, and public relations. Internships emphasize the integration of learning, both cognitive and experiential. Interns may register for one or two semesters, depending on the availability of appropriate placement sites and qualified supervisors. Interns spend a minimum of 10 hours per week in on-site work and complete the required academic component specified by the faculty coordinator. Enrollment by permission only.

PY 0392 Internship in Applied Psychology 1-3 Credits
Senior psychology majors gain practical, career-related experience in a variety of supervised field settings through the internship program. Student interns choose from a wide selection of placements in traditional psychology-related programs: mental health, social service, school psychology, early child and special education, probation, and hospital administration. Intern placements in related disciplines include human factors engineering, human resource development, advertising, and public relations. Internships emphasize the integration of learning, both cognitive and experiential. Interns may register for one or two semesters, depending on the availability of appropriate placement sites and qualified supervisors. Interns spend a minimum of 10 hours per week in on-site work and complete the required academic component specified by the faculty coordinator. Enrollment by permission only.

PY 0395 Independent Research 1-4 Credits
This course involves a limited number of upper-division students (usually seniors) in all aspects of an advanced research project. Students must obtain the consent of the professor with whom they will work prior to registering for this course. Frequently a research proposal is required prior to acceptance into this course; early planning is essential. Enrollment by permission only.

Faculty

Professors
Braginsky
Henkel
Primavera

Associate Professors
Andreychik
Harding
McClure, chair

Associate Professors of the Practice
Tomlin

Assistant Professors
Hollingsworth
Karanian
LaClair (Visiting)
Rakowitz

Lecturers
Amico
Fitzgerald

Professors Emeriti
Gardner
McCarthy
Salafia