

# Psychology (PSY)

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Course information contained within the Bulletin is accurate at the time of publication in July 2024 but is subject to change. For the most up-to-date course information, please refer to the Course Catalog.

## **PSY 0816. Workings of the Mind. 3 Credit Hours.**

In this course we will discuss conscious and unconscious mental processes. We will start by considering the nature of the unconscious mind and will examine evidence for the existence of unconscious processes in memory, problem solving, behavior in social settings, and our attitudes, beliefs, and opinions. We will then study the nature of consciousness from psychological and philosophical perspectives, with a focus on trying to answer the questions of: what is consciousness, what does consciousness do, and why does consciousness exist. For many of the issues we will discuss, there is no scientific consensus regarding the right answer or the most correct theory. Be prepared to think critically and to tolerate perplexity. NOTE: This course fulfills the Human Behavior (GB) requirement for students under GenEd and Individual & Society (IN) for students under Core. Students cannot receive credit for this course if they have successfully completed Psychology 0916.

**Course Attributes:** GB

**Repeatability:** This course may not be repeated for additional credits.

## **PSY 0817. Brain Matters. 3 Credit Hours.**

One of the last frontiers in science is the brain. We know a great deal about the structure and function of the brain and nervous system, but it is challenging to comprehend fully the complexity of a system made up of 100 billion components that are interacting with one another using tens of trillions of connections that can change and rewire during development and aging. Neuroscience is the multidisciplinary field in which brain research falls. Neuroscience is one of the fastest growing domains in all of science - and good bet for a future career path. Neuroscientists investigate brain function from the level of molecular genetics, to cellular dynamics, to brain anatomy and physiology, to relations between brain, behavior, and cognition, to brain development and aging, to diseases of the brain. In this course, we will touch on knowledge about the brain at all these levels, and more. We will also discuss case studies of brain impairment. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd and Science & Technology Second Level (SB) for students under Core. Students cannot receive credit for this course if they have successfully completed Neuroscience 0817.

**Course Attributes:** GS

**Repeatability:** This course may not be repeated for additional credits.

## **PSY 0818. Human Sexuality. 3 Credit Hours.**

We often think about sexuality in terms of the physical and reproductive aspects of sex. But our sexuality is complex and dynamic. We will address this dynamic complexity as we explore the biological, psychological, relational, and cultural aspects of sexuality. The goal of this course is to broaden your perspective of human sexuality, and deepen your understanding and awareness of your own sexuality. NOTE: This course fulfills the Human Behavior (GB) requirement for students under GenEd and Individual & Society (IN) for students under Core. Students cannot receive credit for this course if they have successfully completed any of the following: SOC 0818/0918, PSY 0918.

**Course Attributes:** GB

**Repeatability:** This course may not be repeated for additional credits.

## **PSY 0825. Quantitative Methods in the Social Sciences. 4 Credit Hours.**

Our understanding of much of reality relies on statistics. Many claims about our world, our society and other societies, specific organizations (such as Temple University), and even our minds and bodies rest on statistical data. Using examples from anthropology, psychology, sociology, political science, and economics, students will examine how social science methods and statistics help us understand the social world. The goal is to become critical consumers of quantitative material that appears in scholarship, the media, and everyday life. NOTE: This course fulfills the Quantitative Literacy (GQ) requirement for students under GenEd. Students cannot receive credit for this course if they have successfully completed SOC 0825, SOC 0925, POLS 0825, POLS 0825, or ANTH 0825.

**Course Attributes:** GQ

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (MATH 0701, MATH 0702, 'Y' in MC3, 'Y' in MC4, 'Y' in MC5, 'Y' in MC6, 'Y' in MC3A, 'Y' in MC6A, 'Y' in MC3S, 'Y' in MC3D, 'Y' in MC3O, 'Y' in MC3T, or 'Y' in MC6T)

**PSY 0846. Cyberpsychology and Behavior. 3 Credit Hours.**

So many of our social interactions take place online. How are our behaviors different online compared to offline? How do online interactions affect our sense of self? Our sense of community? Our mental health? This course will explore the field of Cyberpsychology, which attempts to answer questions about how digital technology affects human interaction, as well as how we think and behave. Through the course, students will also investigate how evolving technology, such as virtual reality, robots, and digital assistants, might influence human interactions going forward.

**Course Attributes:** GB

**Repeatability:** This course may not be repeated for additional credits.

**PSY 0916. Honors Workings of the Mind. 3 Credit Hours.**

In this course we will discuss conscious and unconscious mental processes. We will start by considering the nature of the unconscious mind and will examine evidence for the existence of unconscious processes in memory, problem solving, behavior in social settings, and our attitudes, beliefs, and opinions. We will then study the nature of consciousness from psychological and philosophical perspectives, with a focus on trying to answer the questions of: what is consciousness, what does consciousness do, and why does consciousness exist. For many of the issues we will discuss, there is no scientific consensus regarding the right answer or the most correct theory. Be prepared to think critically and to tolerate perplexity. (This is an Honors course.) NOTE: This course fulfills the Human Behavior (GB) requirement for students under GenEd and Individual & Society (IN) for students under Core. Students cannot receive credit for this course if they have successfully completed Psychology 0816.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** GB, HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 0918. Honors Human Sexuality. 3 Credit Hours.**

We often think about sexuality in terms of the physical and reproductive aspects of sex. But our sexuality is complex and dynamic. We will address this dynamic complexity as we explore the biological, psychological, relational, and cultural aspects of sexuality. The goal of this course is to broaden your perspective of human sexuality, and deepen your understanding and awareness of your own sexuality. NOTE: This course fulfills the Human Behavior (GB) requirement for students under GenEd and Individual & Society (IN) for students under Core. Students cannot receive credit for this course if they have successfully completed any of the following: SOC 0818/0918, PSY 0818.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** GB, HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 1001. Introduction to Psychology. 3 Credit Hours.**

How do scientists study human behavior? How do others influence our behavior? What is a psychological disorder? These questions and more are reviewed in this course, which covers the basic concepts, methods, theories, and findings in Psychology. Topics include research methods, the nervous system, human development, social psychology, personality, and psychopathology. Duplicate credit warning: Students who have earned credits for PSY 1061 will not earn additional credits for this course.

**Repeatability:** This course may not be repeated for additional credits.

**PSY 1002. Careers in Psychology. 1 Credit Hour.**

This course explores the numerous career pathways open to psychology graduates. Pathways that involve entering the workforce directly are discussed alongside more specialized career paths that typically require graduate study. Students will also identify and develop professional skills to help them meet their career goals, and will learn about resources within and outside Temple that they can use to meet these goals. After completing the course, students will have an application-ready resume (or curriculum vitae) and will have the knowledge and information to find and apply for internships, opportunities to gain research experience, and employment after graduation. Because there is significant overlap in course content, students will receive credit for only one of these courses: CLA 1002, CJ 1002, ENG 1801, HIST 1012, NSCI 1002, POLS 1002, PSY 1002, SOC 1002.

**Repeatability:** This course may not be repeated for additional credits.

**PSY 1003. Statistics for Psychology. 3 Credit Hours.**

The purpose of this course is to provide an introduction to statistics in psychology. We will spend the semester learning the concepts and corresponding methods that will allow us to ask the question, "But how do you know that is true?" Statistics are essential in allowing us to assess whether or not an observed phenomenon might have occurred by chance alone. Additionally, we will read psychological journal articles that utilize the statistics we are learning so that we can see how psychologists use and write about statistics.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (MATH 0701, MATH 0702, 'Y' in MC3, 'Y' in MC4, 'Y' in MC5, 'Y' in MC6, 'Y' in MC3A, 'Y' in MC6A, any course with attribute "QA", any course with attribute "QB", 'Y' in MC3S, 'Y' in MC3D, 'Y' in MC3O, 'Y' in MC3T, or 'Y' in MC6T)

**PSY 1004. Critical Thinking in Psychology. 3 Credit Hours.**

How do you evaluate the strength of a claim made in a magazine, news program, or research article? This course will provide you with basic skills and information to systematically critique claims and research in the popular press and research literature. You will be introduced to basic research concepts, such as correlation vs. causation, common biases, hypotheses, dependent/independent variables, validity, and reliability. You will apply this knowledge to evaluating a wide range of ideas and research in psychology.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1901, PSY 1061, or PSY 1996)

**PSY 1110. Topics in Psychology I. 3 Credit Hours.**

Individual treatment of issues regarding the inner workings of human behavior. Each offering deals with a specific aspect of behavior and motivation pertaining to life in today's society. Previous topics: women and therapy, exploring human nature, and drugs and the mind. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may be repeated for additional credit.

**PSY 1901. Honors: Introduction to Psychology. 3 Credit Hours.**

How do scientists study human behavior? How do others influence our behavior? What is a psychological disorder? These questions and more are reviewed in this course, which covers the basic concepts, methods, theories, and findings in Psychology. Topics include research methods, the nervous system, human development, social psychology, personality, and psychopathology.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 2101. Foundations of Cognitive Psychology. 3 Credit Hours.**

Survey of recent research and theory in the areas of verbal learning and cognitive processes. Learning and retention of verbal materials, thinking and problem solving, and the relationship between language and thought.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1071, PSY 1901, PSY 1996, or PSY 1061)

**PSY 2103. Foundations of Learning and Behavior Analysis. 3 Credit Hours.**

This course begins with introduction to a system of principles that account for the acquisition and maintenance of both normal and problematic behavior. Building upon this, applied behavior analysis will be illustrated with examples such as useful parenting techniques, the combining of simple into complex skills, interventions for severely problematic behavior, and early interventions for autism. The basics of Pavlovian conditioning will also be included, emphasizing their role in clinical phenomena and in drug addiction. The concluding phase of the course will be concerned with functional analyses of verbal behavior in typical human interactions, as well as in the origins of awareness and self-control.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1071, PSY 1901, PSY 1996, PSY 1061, or ABA 3302)

**PSY 2104. Foundations of Sensation and Perception. 3 Credit Hours.**

This course will describe how we experience the world. It will describe the biological sensors we use to gather information about the world and the psychological processes involved in interpreting that information. By the end of the course, students should be able to give an answer to the question: How do we see the world? The class will be lecture format with frequent opportunities to ask questions of the immediate material as well as broader questions about how the material may apply to other areas of psychology.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1071, PSY 1901, PSY 1996, or PSY 1061)

**PSY 2201. Foundations of Psychopathology. 3 Credit Hours.**

A survey of the principal forms of emotional and behavioral disorders; their causes, symptoms, course, assessment, and treatment. Topics include childhood disturbances, schizophrenia, depression, anxiety, and substance use disorders.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 2301. Foundations of Developmental Psychology. 3 Credit Hours.**

Human development across the life span. The role of genetic factors, maturation, learning and socio-cultural factors on the development of motivation, cognitive functions, social and emotional adjustment.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 2401. Foundations of Social Psychology. 3 Credit Hours.**

This course will introduce you to the theoretical perspectives, research methods, and empirical findings of social psychology. Social psychology is the scientific study of how people's thoughts, feelings, and behaviors are affected by the real or imagined presence of others. More specifically, the four main goals of this course are for you to learn: the major concepts, research findings, and issues in the field of social psychology; how social psychologists derive and test their theories and hypotheses through research; how subtle situational factors affect behavior; and how social psychology applies to your own life.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 2402. Foundations of Industrial and Organizational Psychology. 3 Credit Hours.**

A survey of the application of psychological theory, techniques, and research to industry. Selection, training, motivation, job satisfaction, job evaluation, performance measurements, leadership, and other topics.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 2501. Foundations of Behavioral Neuroscience. 3 Credit Hours.**

This course examines the neurobiology of behavior from the level of neuron to complex neural system interactions. Topics range from the neurobiology of sensory perception and movement to the neurobiology of learning and mental illness.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1071, PSY 1901, PSY 1061, or PSY 1996)

**PSY 2502. Foundations of Cognitive Neuroscience. 3 Credit Hours.**

The role of the brain in cognition. Neural basis of perception, language, learning, memory, thinking, and creativity. Neural pathology and the consequences for behavior. Neuropsychological assessment techniques.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1071, PSY 1901, PSY 1061, or PSY 1996)

**PSY 2601. Foundations of Health Psychology. 3 Credit Hours.**

This course is an overview of the field of health psychology, which focuses on the links between behavior and mental processes and health status and health behaviors. Health psychology is concerned with the promotion and maintenance of health, the prevention of illness, as well as the treatment of illness. Emphasis will be placed on theoretical analysis of health psychology (e.g., theory of planned behavior/reasoned action, health belief model, general adaptation syndrome, locus of control). Clinical applications may include smoking cessation programs, alcohol use interventions, weight control and eating disorders treatment, management of chronic pain and terminal illnesses, improvement of health care utilization and adherence, stress management, and the increasing social support to improve health outcomes.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 2901. Honors: Foundations of Cognitive Psychology. 3 Credit Hours.**

Survey of recent research and theory in the areas of verbal learning and cognitive processes. Learning and retention of verbal materials, thinking and problem solving, and the relationship between language and thought.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 2931. Honors: Foundations of Developmental Psychology. 3 Credit Hours.**

Human development across the life span. The role of genetic factors, maturation, learning and socio-cultural factors on the development of motivation, cognitive functions, social and emotional adjustment.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 2991. Honors Research I. 4 Credit Hours.**

Topics arranged by student and instructor.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may be repeated for additional credit.

**PSY 3002. Evolutionary and Comparative Psychology. 3 Credit Hours.**

The course introduces the student to cognition and social behavior from an evolutionary and comparative perspective. The comparative psychology (i.e., animal cognition) portion of the course presents the methods employed and results obtained during field observations and laboratory experiments on animal cognitive processes. Evolutionary theory, especially as it applies to social behavior, will be presented. The social behavior portion of the course will focus on social behaviors found in wild animals with special attention to those also seen in humans. The course will survey the methods and findings of the field called evolutionary psychology, which investigates selected aspects of human cognition and social behavior. The student can expect to obtain basic familiarity with the concepts and findings of those closely-related fields. Duplicate credit warning: Students who have earned credits for PSY 2102 will not earn additional credits for this course.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and any 2000-level PSY course.

**PSY 3003. Advanced Undergraduate Statistics. 3 Credit Hours.**

This course is meant to give psychology majors who have already taken a basic course in inferential statistics (e.g., Statistics for Psychology; PSY 1003) exposure to more advanced techniques commonly used in psychological research and to bridge the gap between basic and graduate level statistics for those considering a post-graduate degree in psychology. Topics will include linear regression, repeated-measures ANOVA, multi-factorial ANOVA, and several nonparametric alternatives to "standard" inferential tests. In addition to significance testing, this course will focus on the measurement and interpretation of effect size and power. Students will also learn how to perform data analysis using the SPSS statistical software package.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3004. Positive Psychology. 3 Credit Hours.**

Positive psychology encompasses the study of positive experiences, positive character strengths, positive relationships, and the institutions and practices that facilitate their development. Positive experiences include the mental states of flow and mindfulness and emotions about the present (pleasure, contentment, laughter), past (e.g., nostalgia, satisfaction, pride), and future (e.g., hope, optimism). The distinction among the pleasant life, the good life, and the meaningful life will be drawn. The positive character traits include wisdom, courage, compassion, love, humanity, justice, temperance, self-efficacy, resilience, grit, imagination, creativity, and spirituality/transcendence. The classification of these virtues is explored. Positive relationships include the factors that enhance meaning and well-being among couples, family, friends, co-workers, and the community. Positive institutions are exemplified by positive education, positive work environments, healthy families, human leadership, and the development of civic virtues. This course also reviews the history of positive psychology and the contributions this new field has made to several traditional research areas in psychology. Consideration will be given to conflicting viewpoints, and their respective empirical support, including the benefits of balancing positive with negative emotions, the measurement and development of happiness, and the attempting to increase it. Throughout the course we will also engage in experiential learning and practical exercises to increase well-being, which will inform our theoretical and empirical understanding of important questions in positive psychology.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3005. Affective Neuroscience. 3 Credit Hours.**

The brain is not just a thinking machine; it is also a feeling machine. This course explores the neural substrates behind emotions such as love, trust, fear, and pleasure. We will also discuss the relationship between emotions and cognition, the effect of emotions on animal and human behavior, and the biological basis of affective disorders such as anxiety and depression.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2001) and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3006. Stress and the Brain. 3 Credit Hours.**

Stress, in some form or other, is part of our everyday lives. How we respond to stress can either ensure our immediate survival or threaten long-term physical and mental well-being. This course will survey the clinical and preclinical research to understand how the brain initiates stress responses, and how stress, in turn, impacts the brain to alter behavior. The role that stress plays in the development of disorders, such as depression and post-traumatic stress disorder, will also be explored.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2001) and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3007. Neuropharmacology of Drugs of Abuse. 3 Credit Hours.**

This course will explore how drugs of abuse act within the brain. We will discuss the acute and longterm effects of selected drugs of abuse on behavior, mood, cognition and neuronal function and material from studies with humans is integrated with basic studies on the neurobiological basis of drug action and drug abuse -- including detailed coverage of synaptic transmission and the distribution, regulation and integration of brain neurotransmitter systems. The focus is on addictive or illicit drugs, and all the major classes are discussed, including: opiates (heroin, morphine, opium), sedative - hypnotics (alcohol, barbiturates, chloral hydrate), anxiolytics (benzodiazepines), psychomotor stimulants (amphetamine, cocaine), marijuana, hallucinogens (LSD, mescaline), hallucinogenic-stimulants (MDA, MDMA), and dissociative anesthetics (PCP).

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2001) and PSY 1003.

**PSY 3008. Decision Neuroscience. 3 Credit Hours.**

How do we make decisions in social and economic contexts? What factors influence our decisions? How can neuroscience be used to better understand our decisions? To answer these questions, this course focuses on how new research in neuroscience, psychology, and behavioral economics shapes our broader understanding of decision making. The topics covered in the course include functional organization of key brain systems, approaches to measuring and interpreting neuroscience data, methods for measuring decision-making behavior, economic and cognitive modeling, and impact of neuroscience on real-world decision-making. Emerging topics will include applications in policy, marketing, and finance.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in PSY 1003 and (PSY 2104, PSY 2501, PSY 2502, or NSCI 2001)

**PSY 3009. Current Perspectives on Parenting. 3 Credit Hours.**

This course will provide an overview of the field's current understanding of parenting and the role of parenting in child development. The course focuses on understanding theoretical and research approaches to the study of parenting. Topics covered will include historical perspectives on parenting, the importance influence of parents on their children's development, parenting throughout developmental periods (e.g., infancy, toddlerhood, middle childhood, adolescence), and contemporary issues in parenting (e.g., parenting in non-traditional families, parents at risk, child maltreatment, public policy issues, multicultural perspectives on parenting). Students will also be exposed to the multiple research methods available to study parenting and parental influence, and be able to review and critically evaluate current research related to parenting and youth development.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3012. Self-Regulation in Health Behaviors. 3 Credit Hours.**

This course will discuss self-regulation as a potent predictor of healthful behaviors such as exercise and vegetable consumption. We will also explore why non-addicted people compromise healthy long-term goals for less valued, health-risk behaviors such as alcohol use, overeating, and cigarette smoking. We will examine how certain risk behaviors can evolve into addictions if they persist over time. Multiple psychological theories that integrate cognitive, emotional, and social predictors underlying self-regulation in health behaviors will also be discussed.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in PSY 1003, PSY 1004, and any 2000-level PSY course.

**PSY 3013. Psychological Resilience. 3 Credit Hours.**

Stress, adversities and trauma are ordinary parts of life. We naturally adapt to a remarkable variety of challenges throughout our lives, yet occasionally get stuck. Scientific psychology offers evidence-based methods to help us prepare for and adjust to challenging circumstances. This course will examine the theories and science of psychological resilience; the biology of stress; cognitive mediation; and social and community factors that contribute to risk and resilience. You will sample experiential coping skills and techniques, and investigate the role of social and electronic media in the maintenance of stress.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3096. Conducting Psychological Research. 3 Credit Hours.**

This writing intensive course offers a practical introduction to research methods and the process of conducting research in psychology. Students will perform all of the steps involved in a research study, from formulating an idea and hypothesis to presenting results in a paper and presentation. Ethical considerations relevant to research will be emphasized in the course.

**Course Attributes:** WI

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1001, PSY 1901, PSY 1061, PSY 1071, or PSY 1996), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and any 2000-level PSY course.

**PSY 3100. Topics: Brain, Behavior and Cognition. 3 Credit Hours.**

Advanced level topics course; topics vary by instructor.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 2101, PSY 2103, PSY 2501, PSY 2502, PSY 2104, or PSY 2901), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3121. Cognitive Enhancement and Superior Cognition. 3 Credit Hours.**

This seminar-style course will evaluate "cognitive enhancement" techniques - the different ways in which people have tried to strengthen cognitive abilities. It will consider competing ideas about whether the human mind can be enhanced, and will discuss these ideas in relation to plasticity in the human brain. The course will delve into research on the development of "expertise", and on the potential to hone specific cognitive abilities through deliberate practice. Students in the course will learn about, and debate, claims regarding the improvement of cognitive capabilities in healthy young adults, through techniques like mental training, video game play, meditation, brain stimulation, physical exercise, and neuropharmacology ("smart drugs"). Along the way, students will consider what can be learned from individual cases of exceptional cognitive ability, which might represent the outer limits of what the human mind is capable of achieving.

**Repeatability:** This course may not be repeated for additional credits.

**PSY 3131. Problem Solving and Creative Thinking. 3 Credit Hours.**

This course will begin with a historical survey of approaches to the study of creativity, concentrating on questions of definition and issues concerning how creativity can be measured. The relationship between creative thinking and problem solving will be discussed. The next section will examine different perspectives that researchers have taken toward the study of creativity. Examples are: (1) genius and madness; (2) developing tests of creative thinking and studying the creative personality; (3) the cognitive view, which considers creative thinking to be a straightforward extension of ordinary problem solving. We will then examine a number of case studies of creative advances, from the areas of invention (Edison, the Wright brothers), the arts (painting, sculpture, literature, poetry, and music), and science, to acquire a database to use to test the theories of the creative process developed earlier. The material in this course will go beyond that ordinarily covered in a psychology course - we will read research in art history, musicology, history and philosophy of science, and history of technology, as well as literature from the psychological study of giftedness, personality and mental testing, and cognitive processes. Course requirements will include written comments on each week's assigned readings, and a case study of a creative advance in any area of interest to the student. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2101, PSY 2901, PSY 2501, or PSY 2502), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3132. Human Memory. 3 Credit Hours.**

This course provides an in-depth view of human memory. It focuses on the different approaches to research on human memory, including cognitive approaches, experimental approaches, neuroscientific approaches, and developmental (childhood to old age) approaches. Course topics include basic memory processes, the neuropsychology of memory and amnesia, and applied topics in memory research. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2101, PSY 2501, PSY 2502, or PSY 2901), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3151. Direct Applications of Behavioral Principles. 3 Credit Hours.**

Direct hands-on experience, in the shaping and maintaining of novel behavior patterns in the laboratory, will be supplemented by related readings and field trips to educational and social-service agencies where behavioral principles are applied. These experiences will introduce students to functional analysis and its underlying principles, and to the graphical techniques that enable the tracking of skill acquisition of individuals, as well as evaluating their problematic behavior. In addition, each student will carry out an individual project by selecting, analyzing, and arranging for improvement in some behavior that impacts his or her own quality of life.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in PSY 2103, (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3172. The Science of Sleep. 3 Credit Hours.**

Why do we sleep? How does sleep affect memory, learning, physical health, and emotional regulation? How much sleep do we need, and why? How does sleep change with age? How are sleeping, eating, and obesity related? How can we get more sleep? In this advanced undergraduate seminar, we examine all these questions, and more, from a neurological developmental perspective. This course is targeted to students interested in developmental neuroscience, health psychology, clinical psychology, developmental psychology, and learning and memory.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in ((PSY 1003 and PSY 2101), PSY 2501, or PSY 2502)

**PSY 3200. Topics: Clinical. 3 Credit Hours.**

Advanced level topics course; clinical topics vary by instructor.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and any 2000-level PSY course.

**PSY 3221. Clinical Psychology: Research and Practice. 3 Credit Hours.**

In this class the student will learn about one subspecialty within psychology, that of clinical psychology. The course will focus on how clinical psychology emerged as a field of mental health research and practice, what clinical psychologists do and the theory behind those activities. Special attention will be paid to psychological assessment and psychotherapy, two of the main activities that clinical psychologists undertake. Students will learn about the purpose of psychological assessment, some examples of the more commonly used psychological assessment instruments, and how psychological assessment guides service provision. Students will also learn about different theoretical orientations in the practice of psychotherapy. Additional topics covered include ethics in this clinical science, contemporary issues in clinical practice (e.g., innovative treatments for mental illness, the impact of managed care, working with special populations), and career opportunities in the field.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and PSY 2201.



**PSY 3223. Child Psychopathology and Treatment. 3 Credit Hours.**

This course provides an overview of the major psychological, behavioral, and emotional problems experienced in childhood and adolescence. Organized around - but not limited to - the diagnostic framework of the DSM, the course focuses on current views concerning the phenomenology, etiology (causes), and treatment and prevention of these problems. The major theoretical positions are covered, but the major emphasis is on current empirical findings relevant to the various disorders and problems. Covered issues include conduct problems and delinquency, attention deficit problems, depression and suicide, childhood anxiety problems, developmental disabilities, learning problems, child maltreatment and abuse, and children's adjustment to family problems.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and PSY 2201.

**PSY 3301. Phases of Development: Infancy. 3 Credit Hours.**

Within this course, students focus on a particular phase of development, infancy, for an entire semester. This phase of development presents unique changes and challenges for the developing person. For the scientist, the phase poses unique theoretical perspectives and special methodological challenges. Up-to-date information and directions for future study, application and research are emphasized.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 2301 or PSY 2931)

**PSY 3303. Psychological Testing: Measuring IQ, Thoughts, Feelings, and Attitudes. 3 Credit Hours.**

How do we measure intelligence, thoughts, feelings, and attitudes? This course will provide an overview of psychometric theory, methods, and statistics. Test construction and the psychometric evaluation of tests (e.g., validity, reliability) will be covered in detail. Students also will learn the history of psychometrics, and legal, ethical, and cultural diversity issues related to this topic will be discussed. This course will introduce assessment concepts and methods that will be useful in a wide range of settings, including graduate school and careers in clinical settings, marketing, personnel selection, job performance evaluations, treatment evaluations, forensic applications, and others.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3304. Personality, Social and Emotional Development. 3 Credit Hours.**

How do we develop as unique individuals? How do we come to relate to others and ourselves? How do we come to feel the way we do about the people we know and the many important things in our lives? Using contemporary research and theory, these core questions are examined. Among the topics to be studied are the development and significance of early attachment relationships, the development of a sense of self, changing family relations, the progression from external to internal self-control, the emergence of prosocial and anti-social behavior, moral development, the development of romantic relationships, and the nature of changing relationships with peers and loved ones. Students will acquire an understanding of the role of early experiences in development, the nature of emotional vulnerability and personality resilience, and the extent to which some behaviors are continuous or discontinuous over time. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 2301 or PSY 2931)

**PSY 3305. Cognitive and Language Development. 3 Credit Hours.**

This class will discuss theory and evidence concerning how children acquire adult competence in thinking and language. Development is covered from infancy to adolescence. We will consider a wide array of domains and processes in cognitive development, including number, space, theory of mind, reasoning, perception, attention, and memory. Educational and applied implications may be touched on, as well as neuroscience approaches.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 2101, PSY 2301, PSY 2901, or PSY 2931)

**PSY 3306. Neuroscience of Development and Aging. 3 Credit Hours.**

This course will integrate students' knowledge of behavioral and cognitive relationships between young adult neuroanatomy and behavior that they studied in prerequisite courses (Psychology 2501 (0260) - Foundations of Behavioral Neuroscience or Psychology 2502 (0265) - Foundations of Cognitive Neuroscience) with information about the development and aging of behavior, cognition and neuroanatomy and neurophysiology. The initial emphasis in the course will be on embryonic and fetal development of the central nervous system and emergent behavioral plasticity. Sensory and motor development in the fetus will be examined. Postnatal development of the cerebral cortex and developmental outcomes will be explored in the context of environmental phenomena that can amplify or inhibit the organism's adaptive capacity. Normal aging of the brain will be contrasted to neurodegenerative diseases of old age, and the cognitive and behavioral consequences of both normal and non-normal aging will be presented.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (NSCI 2001, PSY 2501, or PSY 2502)

**PSY 3411. Social Cognition. 3 Credit Hours.**

This class provides an overview of social cognition, the study of the cognitive representations and processes that people use to try to make sense of the social world. Topics covered will include social attitudes, the social self, stereotypes, attributions, and social decision-making. Readings, lectures, and discussions will focus on the key research findings, the unique methods, and the implications and applications of social cognition research. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and PSY 2401.

**PSY 3413. Psychology of Power, Oppression, and Privilege. 3 Credit Hours.**

Psychology of Power, Oppression, and Privilege is designed to be a specialized course to focus on diversity, equity and inclusion within the Psychology major. This course provides an in-depth coverage of psychology topics, including stereotyping, prejudice and privilege, discrimination and advantage, oppression and the impact of oppression on the individual's mental health and well being. In addition, this course provides further opportunities for students to develop their writing, speaking, and presentation skills.

**Course Attributes:** SI

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in any 2000-level PSY course.

**PSY 3417. Personnel Psychology. 3 Credit Hours.**

This course focuses on the application of psychological theories and principles to issues in personnel selection. Topics include job analysis, recruitment and selection techniques, selection fairness, utility analysis, affirmative action, training and development, and performance appraisal.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in PSY 2402, (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3418. Human Performance Improvement. 3 Credit Hours.**

This course is an introduction to Human Performance Technology, a rapidly growing field that applies the principles, methods, and empirical generalizations of Behavior Analysis to improving human performance in organizations. Working from a theoretical basis, students will learn how to diagnose performance discrepancies in organizational settings, design and evaluate appropriate behavior-based solutions.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and PSY 2402.

**PSY 3501. Investigation of Addiction Disorders. 3 Credit Hours.**

What is addiction? How can it be defined? This course will explore the psychological, neurobiological, and pharmacological perspectives of addiction and addiction disorders. Students will learn the basic neurobiology of addiction, an overview of experimental techniques investigating addiction, and discuss the societal impacts. Several addiction disorders will be covered, ranging from gambling to drugs of abuse. Students will be encouraged to provide their viewpoints and participate in class discussions.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), PSY 1004, and any 2000-level PSY course.

**PSY 3561. Psychopharmacology. 3 Credit Hours.**

This course will focus on how the brain works on a chemical level. It examines how behavior and environment can change functions of the brain, and how medications and drugs alter brain function. NOTE: Check class schedule for semesters offered.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2122) and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3566. Neurobiology of Learning and Memory. 3 Credit Hours.**

This course examines the neuroanatomy and neurophysiology underlying the many diverse forms of learning and memory. The course begins with an overview of the structure and function of neural areas responsible for learning, before progressing to an examination of the different processes involved in the acquisition, consolidation, and forgetting of habits, skills, and cognition. Additional topics may include the relation between pharmacology and learning, the impact of disease or trauma, and the neurobiology of social behavior.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2001) and (PSY 1003, PSY 2168, STAT 2102, or STAT 2103)

**PSY 3600. Advanced Topics in Health Psychology. 3 Credit Hours.**

Special Topics course - topic varies by semester and/or by instructor. Topics offered are all specifically related to Health Psychology. NOTE: Check class schedule for topics offered each semester.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 2601, HRPR 2103, or SBS 2103), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101)

**PSY 3601. Social Health Psychology. 3 Credit Hours.**

Health psychology is concerned with the promotion and maintenance of health, the prevention of illness, as well as the treatment of illness. This course will focus on how social psychological factors affect one's general health, health behaviors, and well-being. Emphasis will be placed on theoretical analysis of social psychological phenomena as they apply to health psychology (e.g., social support and intimate relationships; stigma, prejudice, and discrimination; issues of race, gender, class; health attitudes and persuasion; and the self).

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2601, HRPR 2103, or SBS 2103), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101)

**PSY 3602. Clinical Neuropsychology. 3 Credit Hours.**

This course will provide background on basic functional anatomy of the central nervous system and neuropsychological theories and methods. The primary focus of the course will be the clinical assessment and treatment of neuropsychological disorders, such as aphasia, agnosia, dementia, and others. NOTE: This course is regularly cross-listed with NSCI 3602; students will receive credit for only one course.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and any 2000-level PSY course.

**PSY 3603. Clinical Applications of Health Psychology. 3 Credit Hours.**

Health psychology is a subfield of psychology that applies psychological theories and techniques to health and wellness and the prevention and treatment of illness and disabling conditions. This advanced undergraduate course will provide an introduction to the clinical applications of health psychology using an interdisciplinary model. Readings, review of research, discussions and an interdisciplinary project will focus on integrating knowledge of the biological, behavioral, emotional, social and cognitive influences on health and health behaviors with the goal of understanding psychological approaches to the prevention and treatment of physical problems and enhancing overall wellness.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2201, PSY 2601, HRPR 2103, or SBS 2103), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101)

**PSY 3604. Food on the Brain. 3 Credit Hours.**

This course is about food and eating from a variety of perspectives including from a neuroscience, developmental, and an individual differences perspective. We will review the neurobiology of tasting and consuming food; examine lifespan and gender differences. We will examine eating in healthy individuals but also will cover health and clinical psychology topics such as eating and weight disorders. We will review the current understanding of food as an addictive substance and consider food and eating occurs within a social and environmental context.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in PSY 1003 and (PSY 2501, PSY 2502, PSY 2601, HRPR 2103, or NSCI 2001)

**PSY 3615. History and Systems of Psychology. 3 Credit Hours.**

The development of psychology from its origins to present. The conceptual bases of the current major psychological systems.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and any 2000-level PSY course.

**PSY 3620. Topics in Psychology. 3 Credit Hours.**

Special Topics course - topic varies by semester and/or by instructor. Topics offered are all from the major divisions of psychology; clinical, developmental, social and BBC (Brain, Behavior & Cognition). NOTE: Check class schedule for topics offered each semester.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), and any 2000-level PSY course.

**PSY 3785. Psychology Internship. 1 to 12 Credit Hour.**

Work experience in clinical and industrial settings where psychologists are employed eight hours a week under the guidance of an on-site supervisor. Students meet for seminars, and write a paper under the guidance of a Temple coordinator.

**Repeatability:** This course may be repeated for additional credit.

**PSY 3787. Practicum. 1 to 12 Credit Hour.**

Work experience in clinical and industrial settings where psychologists are employed eight hours a week under the guidance of an on-site supervisor. Students meet for seminars, and write a paper under the guidance of a Temple coordinator.

**Class Restrictions:** Must be enrolled in one of the following Classes: Junior 60 to 89 Credits, Senior 90 to 119 Credits, Senior/Fifth Year 120+ Credits.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), (PSY 1003, PSY 2168, STAT 2102, or STAT 2103), (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071), and any 2000-level PSY course.

**PSY 3791. Collaborative Research I. 1 to 4 Credit Hour.**

Faculty advisor needed for research in a particular area. For projects outside Temple University, approval must be obtained through a faculty member who will handle the liaison with the outside institution and ensure uniformity of requirements.

**Repeatability:** This course may be repeated for additional credit.

**PSY 3891. Collaborative Research II. 1 to 4 Credit Hour.**

Faculty advisor needed for research in a particular area. For projects outside Temple University, approval must be obtained through a faculty member who will handle the liaison with the outside institution and ensure uniformity of requirements.

**Repeatability:** This course may be repeated for additional credit.

**PSY 3920. Honors Topics in Psychology. 3 Credit Hours.**

Topic varies by semester and/or by instructor. Check course schedule for topics offered each semester.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in (PSY 2168, PSY 1003, STAT 2102, or STAT 2103), (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101), and (PSY 1001, PSY 1061, PSY 1901, PSY 1996, or PSY 1071)

**PSY 3921. Honors Cognitive Enhancement and Superior Cognition. 3 Credit Hours.**

This seminar-style course will evaluate "cognitive enhancement" techniques - the different ways in which people have tried to strengthen cognitive abilities. It will consider competing ideas about whether the human mind can be enhanced, and will discuss these ideas in relation to plasticity in the human brain. The course will delve into research on the development of "expertise", and on the potential to hone specific cognitive abilities through deliberate practice. Students in the course will learn about, and debate, claims regarding the improvement of cognitive capabilities in healthy young adults, through techniques like mental training, video game play, meditation, brain stimulation, physical exercise, and neuropharmacology ("smart drugs"). Along the way, students will consider what can be learned from individual cases of exceptional cognitive ability, which might represent the outer limits of what the human mind is capable of achieving.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may not be repeated for additional credits.

**PSY 3961. Honors Psychopharmacology. 3 Credit Hours.**

This course will focus on how the brain works on a chemical level. It examines how behavior and environment can change functions of the brain, and how medications and drugs alter brain function.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 2501, PSY 2502, or NSCI 2122) and (PSY 2168, PSY 1003, STAT 2102, or STAT 2103)

**PSY 3991. Honors Research II. 3 Credit Hours.**

Topics arranged by student and instructor.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in PSY 2991, (PSY 2168, PSY 1003, STAT 2102, or STAT 2103), and (PSY 1004, PSY 1167, SOC 1167, MATH 1013, or STAT 2101)

**PSY 4182. Independent Study in Cognitive Neuroscience I. 3 Credit Hours.**

Students do cognitive neuroscience research in the laboratory.

**Repeatability:** This course may be repeated for additional credit.

**PSY 4282. Independent Study in Cognitive Neuroscience II. 3 Credit Hours.**

Students do cognitive neuroscience research in the laboratory.

**Repeatability:** This course may be repeated for additional credit.

**Pre-requisites:** Minimum grade of C- in PSY 4182.

**PSY 4696. Capstone in Psychology. 3 Credit Hours.**

The focus of this capstone is a topic important to many fields in psychology. Different topics will be covered in different semesters. The course will allow students to see the linkages between concepts and theories from very different fields and to see how psychology can be applied to problems in many spheres of life. The emphasis on synthesis and application makes this capstone particularly useful for students planning graduate work in psychology and those unsure of the direction they would like to take in psychology. NOTE: This course is limited to psychology majors in their senior year.

**Course Attributes:** WI

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of C- in (PSY 3096 or PSY 2196)

**PSY 4791. Collaborative Research III. 1 to 4 Credit Hour.**

Faculty advisor needed for research in a particular area. For projects outside Temple University, approval must be obtained through a faculty member who will handle the liaison with the outside institution and ensure uniformity of requirements.

**Repeatability:** This course may be repeated for additional credit.

**PSY 4891. Collaborative Research IV. 1 to 4 Credit Hour.**

Faculty advisor needed for research in a particular area. For projects outside Temple University, approval must be obtained through a faculty member who will handle the liaison with the outside institution and ensure uniformity of requirements.

**Repeatability:** This course may be repeated for additional credit.

**PSY 4991. Honors Research III. 3 Credit Hours.**

Topics arranged by student and instructor.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO

**Repeatability:** This course may be repeated for additional credit.

**PSY 4996. Honors Capstone. 4 Credit Hours.**

This capstone is the final class of a four semester honors program in psychology. At this point students have designed a research project and collected and analyzed their data. Here the students write their research in APA style and prepare to submit these manuscripts for publication. Each student participates in a poster session attended by the psychology faculty and other invited guests. NOTE: This course is limited to psychology majors in their senior year who have completed the first three semesters of the psychology honors program.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR.

**Course Attributes:** HO, WI

**Repeatability:** This course may not be repeated for additional credits.