

PSYCHOLOGY (PSYCH)

PSYCH/ASIAN/COUN PSY/ED PSYCH 120 – THE ART AND SCIENCE OF HUMAN FLOURISHING

3 credits.

Explore perspectives related to human flourishing from the sciences and humanities; investigate themes such as transformation, resilience, compassion, diversity, gratitude, community; expand self-awareness, enhanced social connectivity, and ability to change; formulate a sense of what it means to lead a flourishing life that sustains meaningful and fulfilling engagement with studies, relationships, community, and career.

Requisites: None

Course Designation: Breadth – Either Humanities or Social Science Level – Elementary

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Analyze and describe the relevant concepts and theories on the nature and cultivation of human flourishing from multiple intellectual fields including psychology, neuroscience, anthropology, philosophy, and religious studies.

Audience: Undergraduate

2. Describe and engage with the many dimensions of flourishing, and the various extrinsic and intrinsic factors influencing them.

Audience: Undergraduate

3. Formulate an account of human flourishing.

Audience: Undergraduate

4. Employ contemplative practices in an inquiry that cultivates qualities of human flourishing from within.

Audience: Undergraduate

5. Integrate contemplative practice and knowledge of course materials in order to establish a foundation for flourishing in your life and the communities in which you live.

Audience: Undergraduate

PSYCH/SOC 160 – HUMAN SEXUALITY: SOCIAL AND PSYCHOLOGICAL ISSUES

3-4 credits.

Biological, psychological and sociological aspects of sexual relationships and behavior. Presents theoretical and empirical materials on sexuality throughout the life-course, including childhood, adolescence, adulthood, and later life. Attention is given to gender, religion, education and the law as they relate to sexual expression in society.

Requisites: Not open to students with credit for SOC/PSYCH 453.

Course Designation: Breadth – Social Science

Level – Elementary

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

PSYCH 202 – INTRODUCTION TO PSYCHOLOGY

3-4 credits.

Behavior, including its development, motivation, frustrations, emotion, intelligence, learning, forgetting, personality, language, thinking, and social behavior.

Requisites: Not open to students with credit for PSYCH 201 or 281

Course Designation: Breadth – Social Science

Level – Elementary

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

PSYCH 205 – EXPLORING RESEARCH IN PSYCHOLOGY

1 credit.

Focuses on a wide range of research in psychology at UW-Madison, such as child development, clinical psychology, perception, biological psychology, cognition, and psychological neuroscience.

Requisites: PSYCH 202

Course Designation: Breadth – Social Science

Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2021

Learning Outcomes: 1. Identify how psychologists study both universals and differences observed across individuals, cultures, and species, spanning all levels of analysis (neurons to neighborhoods).

Audience: Undergraduate

2. Apply critical thinking skills to determine how conclusions are drawn from research questions.

Audience: Undergraduate

3. Evaluate how data can provide insight into important societal issues.

Audience: Undergraduate

4. Recognize opportunities available in the Psychology major.

Audience: Undergraduate

5. Evaluate psychological science through multiple lenses, including such issues as social justice, poverty, psychopathology, and disabilities.

Audience: Undergraduate

6. Analyze research across all of the major subareas of psychology, and address intersections with myriad disciplines (e.g., zoology, philosophy, genetics, linguistics, economics, public policy, art, pediatrics, and music).

Audience: Undergraduate

PSYCH 210 – BASIC STATISTICS FOR PSYCHOLOGY

3 credits.

Measures of central tendency, variability; probability, sampling distributions; hypothesis testing, confidence intervals; t-tests; Chi-square; regression and correlation (linear) and introduction to analysis of variance (1-way).

Requisites: Satisfied Quantitative Reasoning (QR) A requirement and (PSYCH 202 or concurrent enrollment)

Course Designation: Gen Ed - Quantitative Reasoning Part B Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Explain why data beat anecdotes.

Audience: Undergraduate

2. Understand why association is not causation

Audience: Undergraduate

3. Explain the fundamental concepts and apply the basic procedures that underlie descriptive and inferential statistics

Audience: Undergraduate

4. Interpret and draw conclusions from graphical displays and standard output from statistical software packages.

Audience: Undergraduate

5. Understand why statistical significance does not necessarily imply practical importance.

Audience: Undergraduate

6. Demonstrate an awareness of ethical issues associated with sound statistical practice.

Audience: Undergraduate

PSYCH 212 – SOCIAL SCIENCE TOPICS IN PSYCHOLOGY

3 credits.

Consider how researchers approach classic and current research findings and controversies related to a specific topic, with a social science emphasis. Popular misconceptions will be addressed through discussions of relevant scientific research. Primary focus on behavioral research approaches, though neuroscientific or computational approaches may be integrated.

Requisites: None

Course Designation: Breadth - Social Science Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, for 2 number of completions

Last Taught: Fall 2024

Learning Outcomes: 1. Think critically about an important topic in psychology with an emphasis in the social science.

Audience: Undergraduate

2. Acquire knowledge about the methods used to study that topic.

Audience: Undergraduate

3. Consider controversies in the field and their impact on theoretical development.

Audience: Undergraduate

4. Compare classic and contemporary theories.

Audience: Undergraduate

5. Write scientifically about issues in psychological science.

Audience: Undergraduate

6. Consider the differences between popular press and scientific approaches to issues in psychology.

Audience: Undergraduate

PSYCH 225 – RESEARCH METHODS

4 credits.

General characteristics of scientific method; use of experimental, observational, and correlational research designs; research methods used in psychological science; illustration of core issues in research methods taken from several areas of psychology; lecture, demonstration, and experiments.

Requisites: Satisfied Communications A requirement, grade of C in PSYCH 202, and grade of C in (PSYCH 210, STAT 302, STAT 324 or STAT 371)

Course Designation: Gen Ed - Communication Part B
Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Develop skills to find, read, and understand scientific articles and to synthesize scientific literature

Audience: Undergraduate

2. Through an iterative process, learn how to effectively communicate research in multiple modalities

Audience: Undergraduate

3. Develop critical thinking skills, examine linkages between method and results, consider alternative explanations, and become more knowledgeable consumers of research

Audience: Undergraduate

4. Generate and test hypotheses; design psychological research using different approaches, data collection tools, and analysis techniques

Audience: Undergraduate

5. Correctly interpret and convey statistical results via text, tables, and figures

Audience: Undergraduate

6. Learn key principles of science, including use of evidence, how to evaluate scientific reliability and validity, and how to fairly and thoroughly evaluate research inside and outside the classroom.

Audience: Undergraduate

7. Learn that ethical principles, behavior, and decision-making pertain to all aspects of the research process

Audience: Undergraduate

8. Identify how psychological science can inform societal practices and policies. Review and apply what you learned.

Audience: Undergraduate

PSYCH 310 – TOPICS IN PSYCHOLOGY: STUDY ABROAD

1-6 credits.

A course carried with a UW-Madison Study Abroad Program which has no equivalent on this campus. Current enrollment in a UW-Madison study abroad program

Requisites: None

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 1999

PSYCH 311 – ISSUES IN PSYCHOLOGY

1-4 credits.

Topics vary with the instructor. Survey of topical issues.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

PSYCH/GEN&WS 322 – SEXUAL & RELATIONSHIP VIOLENCE RESEARCH & ACTIVISM

3 credits.

Examine sexual and relationship violence and how they intersect with various aspects of identity (race, gender, sexual orientation, disability, poverty, etc.) in the general community as well as within particular populations (college, military, incarcerated) with a heavy focus on college populations (some of the applied parts of the course will focus here). Learn about power and oppression, as well as ways that both research and practice in these arenas have been marginalized and underfunded. Additional focus on community and campus responses to sexual and relationship violence through a series of speakers as well as about anti-violence activism through course activities and group projects.

Requisites: Junior standing and 3 credits in PSYCH or GEN&WS

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Understand the prevalence of sexual and relationship violence, whom it impacts, how it can affect survivors, and service seeking options for survivors.

Audience: Undergraduate

2. Understand the role of identity and intersectional identities in the experience and impact of violence as well as service seeking.

Audience: Undergraduate

3. Understand the role of alcohol and other drugs in sexual and relationship violence and their intersections with personal and social identities.

Audience: Undergraduate

4. Understand the history and practice of advocacy.

Audience: Undergraduate

5. Apply knowledge in determining the medical, mental health, legal, and other options for survivors

Audience: Undergraduate

6. Analyze and apply fourth-wave feminism to anti-violence activism.

Audience: Undergraduate

PSYCH/ISYE 349 – INTRODUCTION TO HUMAN FACTORS

3 credits.

Conveys the importance of considering human capabilities and limits in system design and operation. This includes understanding human characteristics from the cognitive, physical, and psychosocial perspectives. Implications of these characteristics are explored through understanding the needs of people, designing to support these needs, and evaluating systems to ensure they serve the intended purpose. Case studies are used to identify the human role in accidents and to identify design improvements. Application domains include consumer product design, human-computer interaction, workplace safety, and complex systems such as healthcare delivery.

Requisites: (ISYE 210, ECE 331, MATH/STAT 309, 431, STAT 311, 324, 371, MATH 531, PSYCH 210, or C&E SOC/SOC 360, or concurrent registration), graduate/professional standing, or member of Engineering Guest Students

Course Designation: Breadth - Physical Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Recognize the strengths and limits of human perceptual, cognitive and physical abilities and their implications for system design

Audience: Undergraduate

2. Describe human factors tools, techniques and methods commonly used to design and improve system performance

Audience: Undergraduate

3. Evaluate and recommend work and task designs based on human factors and ergonomic principles

Audience: Undergraduate

4. Define the ethical application of human factors in designing products and processes

Audience: Undergraduate

PSYCH 380 – JUNIOR HONORS SEMINAR

1 credit.

Discusses the process of research, provide guidance and feedback about writing about research, and offer opportunities to present research issues and findings. The broader goal is to prepare students to conduct a Senior Honors Thesis.

Requisites: PSYCH 225 and declared in a College of Letters and Science Honors in the Liberal Arts program or Psychology Honors in the Major

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

Repeatable for Credit: No

Last Taught: Fall 2024

PSYCH 399 – SERVICE LEARNING IN PSYCHOLOGY

1-4 credits.

An independent opportunity to provide experience in community service work relevant to psychology.

Requisites: Consent of instructor

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

PSYCH 401 – PSYCHOLOGY, LAW, AND SOCIAL POLICY

3 credits.

Focuses on the role that psychological principles, research evidence and social science play in the laws of U.S. society, especially in the policies and mechanisms of social control of human behavior. Topics include: the ways society defines membership; the role of psychology determining who should be excluded or restricted from open society; how selected processes work in the legal and social context; students' own roles as citizens in supporting or changing these social processes; clinical-legal processes used to determine the disposition of individuals considered marginal in society; mechanisms used to exclude individuals from open society through criminal and civil court processes; the role of psychology as a science; and the role of psychologists as behavioral experts in criminal and civil courts, and in shaping social policies.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

PSYCH 403 – PSYCHOLOGY OF PERSONALITY

3 credits.

Organization and development of the personality.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 405 – ADULT PSYCHOPATHOLOGY

3-4 credits.

Introduces diagnosis and treatment of major mental disorders. Considers current thinking regarding the biological, psychological, and sociocultural factors that play contributing roles in the etiology and maintenance of these disorders. Historical trends as well as advances in neuroscience will be considered in terms of how they have affected our understanding of psychopathology.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Understand the main defining features of different major forms of adult psychopathology.

Audience: Undergraduate

2. Differentiate between different types of related disorders.

Audience: Undergraduate

3. Understand the relationship between the different paradigms and ways of conceptualizing psychopathology, assessing and treating mental illness.

Audience: Undergraduate

4. Understand the different research methods used in the study of psychopathology.

Audience: Undergraduate

5. Recognize the continuum between mental health and mental illness.

Audience: Undergraduate

6. Identify different types of stigma that people with severe mental illness may face.

Audience: Undergraduate

PSYCH 406 – PSYCHOLOGY OF PERCEPTION

3-4 credits.

Survey the current knowledge about how the brain creates our conscious experience of a surrounding world and of our own bodies. Consider contributions from various approaches, including neurophysiology, psychophysics, computer simulations, perceptual illusions, and patient studies.

Requisites: PSYCH 202, (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2024

PSYCH 414 – COGNITIVE PSYCHOLOGY

3-4 credits.

How people perceive, learn, remember, plan, solve problems, make decisions, and communicate. The main approach is psychological but will also consider contributions from computer science, linguistics, and neurobiology.

Requisites: PSYCH 202, (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

PSYCH 449 – ANIMAL BEHAVIOR

3-4 credits.

Evolutionary and physiological mechanisms of animal behavior including aggressive, reproductive, communicative, and social behaviors, behavioral development.

Requisites: PSYCH 202, (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

PSYCH 450 – PRIMATE PSYCHOLOGY: INSIGHTS INTO HUMAN BEHAVIOR

3-4 credits.

Explore the psychology and biology of our closest living ancestors and how it can provide insights into human behavior and cognition. Learn how a variety of factors (ecological, evolutionary, developmental, and experiential) shape the variation we see across and within primate species. Topics include investigation of similarities and differences across taxa in development, learning, memory, evolution of the brain, spatial navigation, tool-use, social behavior, parental behavior, communication, self-recognition, and theory of mind, as well as ethical issues and conservation.

Requisites: PSYCH 202, ZOOLOGY/BIOLOGY 101, ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

Learning Outcomes: 1. Understand more than 650+ species that comprise the Order Primates.

Audience: Undergraduate

2. Understand how studying nonhuman primates has helped to inform our knowledge about human behavior and physiology, psychological processes, and environmental factors that influence both other animals and us.

Audience: Undergraduate

3. Apply different levels of analysis (proximate, developmental, evolutionary, and phylogenetic) when asking and answering questions about primates and to understand that these levels of analysis offer complementary insights into primate psychology

Audience: Undergraduate

4. Identify how variation in experience, environments, and development shape individual variation within and across primate species.

Audience: Undergraduate

5. Critically evaluate empirical evidence about primate psychological processes as presented in popular media and scientific research articles.

Audience: Undergraduate

6. Recognize the various methods used to study primates in captive and natural settings, including behavioral, cognitive, physiological, and neuroscience methods.

Audience: Undergraduate

7. Reflect on ethical and animal welfare considerations for nonhuman primates across the settings in which they live.

Audience: Undergraduate

PSYCH/SOC 453 – HUMAN SEXUALITY

4 credits.

Provides an interdisciplinary introduction to biological, psychological, and sociological aspects of human sexuality.

Requisites: PSYCH 202 or Sophomore standing. Not open to student with credit for SOC/PSYCH 160

Course Designation: Breadth - Social Science
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 454 – BEHAVIORAL NEUROSCIENCE

3-4 credits.

Biological basis of human and animal behaviors, including perception, action, cognition, social interaction and disease. Weekly themes from "Cracking the Neural Code" to "Love and War". Learn, develop and use neural mechanisms to explain and (attempt to) predict what they and others think and do in all facets of life.

Requisites: PSYCH 202, (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 456 – SOCIAL PSYCHOLOGY

3-4 credits.

Introduce classic and contemporary theories and research in the field, with an emphasis on experimental methodology. Examine the psychological study of the individual in the social world, including social interaction, motivation, attitudes, conformity, communication, leadership, personal relationships, and behavior in small groups.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Understand the kinds of questions that social psychologists ask and why these questions matter.

Audience: Undergraduate

2. Become an effective consumer of science – i.e., understand the methods that social psychologists use to test their research questions and be able to draw appropriate conclusions from study findings.

Audience: Undergraduate

3. Evaluate whether research evidence provides a good test of theory.

Audience: Undergraduate

4. View everyday social behavior through a social psychological lens.

Audience: Undergraduate

5. Think about how research findings can be used to create interventions to address real-world problems.

Audience: Undergraduate

PSYCH 460 – CHILD DEVELOPMENT

3-4 credits.

Biological and behavioral foundations of human development, with an emphasis on experiments and data-driven approaches. Topics will include prenatal development, behavior genetics, motor development, perceptual development, language development, cognitive development, emotional development, social development, and atypical development.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 462 – ADOLESCENT DEVELOPMENT

3-4 credits.

Examines research on biological, cognitive, social, and emotional development during the second decade of life. Covers topics most relevant to teenagers, such as pubertal development and its social consequences, changing relationships with parents, self and identity development, the increasingly important role of peers, school adjustment, and high risk behaviors.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Identify major subfields of developmental psychology and recognize how each of these areas of research contribute to our understanding of the mind, brain, and behavior in teenagers.

Audience: Undergraduate

2. Understand how various different methodologies (e.g., magnetic resonance imaging, ecological momentary assessment, etc.) are applied with the scientific methods to use in research studies involving teenagers.

Audience: Undergraduate

3. Critically evaluate research claims heard in everyday life (e.g., popular media, educational settings, academia, civic discourse, etc.).

Audience: Undergraduate

4. Differentiate between myths and contemporary scientific evidence regarding teenage development.

Audience: Undergraduate

PSYCH 464 – ADULT DEVELOPMENT AND AGING

3 credits.

Physical, cognitive, social, and personality development during the adult years.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

PSYCH 501 – DEPTH TOPIC IN SOCIAL SCIENCE

4 credits.

Provides an in-depth treatment of a specific topic in psychology.

Requisites: PSYCH 202

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2025

PSYCH 502 – COGNITIVE DEVELOPMENT

4 credits.

Covers the basics of cognitive development during childhood. Topics include theoretical approaches to cognitive development; perceptual, language, memory, and conceptual development; social cognition; problem solving, and academic performance.

Requisites: PSYCH 406, 413, 414, 460, 462, or 464

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Describe the basic tenets of major theories of cognitive development and highlight points of similarity and differences among them.

Audience: Undergraduate

2. Identify and explain the major methodological approaches used in the field of cognitive development by researchers who adopt different theoretical perspectives.

Audience: Undergraduate

3. Interpret children's behaviors from different theoretical perspectives and in light of existing knowledge about the development of perception, language, memory, concepts, social cognition, problem solving, and academic skills.

Audience: Undergraduate

4. Describe basic phenomena and theoretical accounts of perceptual development, language development, memory development, concept development, the development of social cognition, the development of problem solving, and the development of academic skills.

Audience: Undergraduate

5. Practice identifying claims about cognitive development in popular press, evaluating those claims based on evidence in the scientific literature, and evaluating popular press articles in light of the alignment between claims and evidence.

Audience: Undergraduate

PSYCH 503 – SOCIAL DEVELOPMENT

4 credits.

Explores how infants and children perceive, think about, and interact with the social world. Topics include theory of mind, emotions, early social relationships, peer influences, morality and pro-social behavior, aggression, and social categorization.

Requisites: PSYCH 403, 414, 428, 449, 450, 456, 460, 462, or 464

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Discuss historical and contemporary theories of social development

Audience: Undergraduate

2. Read, understand, and evaluate empirical literature on children's social development across a range of topics

Audience: Undergraduate

3. Evaluate a popular press article about a topic related to the course material

Audience: Undergraduate

4. Compose polished writing about a follow-up study related to the course material

Audience: Undergraduate

5. Discuss contemporary theories of social development with others in the course

Audience: Undergraduate

6. Articulate cross-cultural and evolutionary perspectives on infants' and children's social development

Audience: Undergraduate

7. Evaluate major methodologies used to assess infants' and children's social development

Audience: Undergraduate

PSYCH 505 – DEPTH TOPIC IN BIOLOGICAL SCIENCE

3-4 credits.

Provides an in-depth treatment of a specific topic in psychology and biology.

Requisites: PSYCH 202, (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 151, or (BIOCORE 381 and 382)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

PSYCH 507 – INTRODUCTION TO CLINICAL PSYCHOLOGY

4 credits.

Interdisciplinary introduction to clinical psychology including history, theories, and treatment modalities.

Requisites: PSYCH 405

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Learning Outcomes: 1. Differentiate the multiple degree programs associated with clinical psychology.

Audience: Undergraduate

2. Differentiate career options afforded to those with a degree in clinical psychology.

Audience: Undergraduate

3. Identify of a variety of approaches intervention and treatment of psychological disorders.

Audience: Undergraduate

4. Identify the social, legal, ethical, clinical, and political issues surrounding the identification and treatment of disorders.

Audience: Undergraduate

5. Identify abnormality and mental illness from a more positive standpoint through person-first language.

Audience: Undergraduate

6. Analyze into the significance of cultural competencies within clinical psychology.

Audience: Undergraduate

PSYCH 508 – PSYCHOLOGY OF HUMAN EMOTIONS: FROM BIOLOGY TO CULTURE

4 credits.

Emotional experience affects and defines every facet of our life, but it seems mysterious and unsuitable for scientific inquiry. Explore how and why emotion is not unsuited to scientific research and provides an in-depth examination of research from all sub-disciplines of the field of Psychology. This includes neuroscience and the biological bases of behavior, questions of the developmental curve for emotional phenomena and the relationship between feeling and thinking, and the study of social groups and culture.

Requisites: PSYCH 403, 428, 456, 460, 462, 464, SOC/PSYCH 453, or PSYCH/GEN&WS 522

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Explain the theoretical approaches to emotion and current debates in the psychology of emotion

Audience: Undergraduate

2. Analyze the main questions addressed in research on emotion, and how that research is conducted

Audience: Undergraduate

3. Explore the functioning of numerous components of emotion in addition to subjective experience (feelings) such as bodily and facial expression, physiology, and processes of the brain

Audience: Undergraduate

PSYCH 510 – CRITICAL ISSUES IN CHILD PSYCHOPATHOLOGY

4 credits.

Provides in-depth coverage on the study of common mental disorders of childhood and adolescence. Uses a scientific lens to dive into some of the more controversial issues in the field, rather than focusing on basic definitions and classifications, instead. For instance, what factors have led to the rise in ADHD diagnosis in this country, and around the world? Why aren't evidenced-based treatments more widely used in mental health settings? Are antidepressants safe for adolescents, and do they actually work?

Requisites: PSYCH 405, 460, or 462

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2022

Learning Outcomes: 1. Identify and explore how cultural factors affect our conceptualization of mental disorders, while learning about individual differences in mental disorders by exploring how they are influenced by the interplay between both biology and environments.

Audience: Undergraduate

2. Refine critical thinking skills and question how conclusions are drawn from the data and to make connections between scientific studies and their applications to the real world.

Audience: Undergraduate

3. Apply research as a tool for affecting change for all people, and not just for selective populations. Explore the tension between science and clinical practice in the field and develop the foundations and skills for bridging this gap (as opposed to widening it by only focusing on one aspect).

Audience: Undergraduate

4. Integrate an array of material from within the psychological sciences (clinical psychology, developmental psychology) as well as from disciplines outside of psychology, including in anthropology, sociology, public health, epidemiology, neuroscience, and genetics.

Audience: Undergraduate

PSYCH 513 – HORMONES, BRAIN, AND BEHAVIOR

4 credits.

Complex social behavior emerges from the interplay of hormones, the brain and environmental signals. Introduces how hormones and neurotransmitters shape brain and behavior in animals and humans. Review the mechanisms by which hormones shape brain sex differences and its consequences on juvenile (i.e. play) and adult behavior. Examine how hormones influence sexual behavior using basic animal models, and extend this to human sex differences, including sexual orientation. Additional topics include how hormones shape competitive and affiliative behaviors, eating disorders, and stress and mental health, as well as how individual variation occurs in response to the changing environment and genetic landscape, including epigenetics at an introductory level.

Requisites: PSYCH 406, 413, 414, 449, 450, 454, or ZOOLOGY/PSYCH 523

Course Designation: Breadth - Either Biological Science or Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 515 – ANIMAL COGNITION

4 credits.

With intricate cultures, impressive technology, and layered social lives, humans seem to stand apart from their animal kin. However, humans and non-human animals share many aspects of their mental lives, and, upon closer inspection, some animals even reveal cognitive abilities far beyond the capacities of humans. Through comparing and contrasting human and non-human cognition, learn about human psychological uniqueness and its evolutionary origins, and fundamental properties of cognitive processes in general.

Requisites: PSYCH 406, 414, 449, 450, 454, 460, 462, or 464

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Learning Outcomes: 1. Describe and and discuss the fundamentals of cognitive science through the lens of comparative cognition

Audience: Undergraduate

2. Analyze the evolutionary process and how human and animal minds are the product of it

Audience: Undergraduate

3. Analyze methods of experimentation in animal cognition and cognitive science

Audience: Undergraduate

4. Read and interpret data from graphs

Audience: Undergraduate

5. Critically evaluate primary research articles, secondary news articles about science, and observations of animal cognition and "intelligence"

Audience: Undergraduate

PSYCH 521 – THE STRUCTURE OF HUMAN THOUGHT: CONCEPTS, LANGUAGE AND CULTURE

4 credits.

Topics include the relationship of language to other cognitive and perceptual functions; language evolution; the connection of language and culture, sources of linguistic diversity; linguistic engineering; the role of information technologies in the spread of ideas and its impact on language change. Will draw heavily on empirical research in cognitive and developmental psychology, and to a lesser extent on cognitive neuroscience, animal cognition, anthropology, and linguistics.

Requisites: PSYCH 406, 413, 414, or 460

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2023

Learning Outcomes: 1. Understand the difference between human language and other communication systems

Audience: Undergraduate

2. Learn about the evolution of language

Audience: Undergraduate

3. Understand what is meant by claims that language does or does not affect 'thought' and the kinds of empirical data that support or fail to support these claims

Audience: Undergraduate

4. Intelligently discuss the relationship between language and memory, perception, reasoning, mathematical cognition, and spatial cognition

Audience: Undergraduate

5. Understand what is meant by How does language help or hurt our "thinking?"

Audience: Undergraduate

6. Learn about the role of metaphor in human communication and thought

Audience: Undergraduate

7. Understand the impact of new communication technologies on language

Audience: Undergraduate

8. Understand how to evaluate opposing theoretical positions and empirical results

Audience: Undergraduate

PSYCH/GEN&WS 522 – PSYCHOLOGY OF WOMEN AND GENDER

3 credits.

Examination of theories and research on the psychology of women and gender. Explores topics such as sex bias in psychological research; psychological aspects of female sexuality and reproduction; gender-based violence; female achievement and power; lifestyle choices of women; women and mental health; and psychological research with transgender individuals.

Requisites: Sophomore standing, a course in PSYCH and (GEN&WS 102 or 103) or graduate/professional standing

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

PSYCH/ZOOLOGY 523 – NEUROBIOLOGY

3 credits.

Basic mechanisms in cellular neurophysiology: electrophysiology and chemistry of nerve signals, mechanisms in integration, simple nervous pathways and their behavioral correlates.

Requisites: (ZOOLOGY/BIOLOGY/BOTANY 151, ZOOLOGY/BIOLOGY 101, or BIOCORE 383) and (CHEM 104, CHEM 109, or CHEM 116)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Understand the molecular mechanisms of cellular neurophysiology, including the ionic basis of the resting membrane potential and action potential, and mechanisms of synaptic transmission.
Audience: Undergraduate

2. Understand the basis of sensory perception at the receptor level.

Audience: Undergraduate

3. Demonstrate how neuronal signaling is integrated into simple nervous pathways and their behavioral correlates.

Audience: Undergraduate

4. Apply principles of neuronal function to activity-dependent changes in rhythmic neuronal activity, neuronal plasticity, and memory.

Audience: Undergraduate

5. Understand some of the state-of-the-art approaches to neuronal function.

Audience: Undergraduate

6. Understand key steps in the development of the nervous system and explain and apply the experimental approaches underpinning that understanding.

Audience: Undergraduate

7. Elucidate connections between genetics, pharmacology, and the functioning of the nervous system.

Audience: Undergraduate

8. Understand the mechanisms underlying a subset of disorders of the nervous system and the bases of current treatments.

Audience: Undergraduate

PSYCH 526 – THE CRIMINAL MIND: FORENSIC AND PSYCHOBIOLOGICAL PERSPECTIVES

4 credits.

Criminal behavior is an extremely common and costly problem for society. Provides an overview of criminal psychology and the relevant forensic and psychobiological processes in the field.

Requisites: PSYCH 401, 403, 405, or 456

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Critically review and analyze research in the field of forensic psychology.

Audience: Undergraduate

2. Review personality and crime with an emphasis on psychopathy assessment, case examples, causal theories, and neurobiological factors

Audience: Undergraduate

3. Examine the connection between mental illness and crime with an emphasis on Not Guilty by Reason of Mental Disease or Defect and Competency to Proceed psychological evaluations

Audience: Undergraduate

4. Consider general theories of causes of crime

Audience: Undergraduate

5. Characterize typologies of people who have committed sexual offenses, causes of sexual offenses, and risk assessment and typologies of people who have committed violent offenses, with a focus on domestic

Audience: Undergraduate

6. Analyze social psychological influences on crime and criminal justice system

Audience: Undergraduate

7. Critique treatment and intervention approaches, with emphasis on what works and why.

Audience: Undergraduate

PSYCH 528 – CULTURAL PSYCHOLOGY

4 credits.

Societies are shaped by the people, places, and environments that surround us. Examine the ways that culture and individual psychology make each other up, including how we think about ourselves, how we attend to and reason about the world, how we think about those like us and unlike us, and how these beliefs, attitudes, and cognitions are shared and maintained across groups.

Requisites: PSYCH 403, 406, 413, 414, or 456. Not open to students with credit in PSYCH 428.

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Examine naive realism and its associated problems.

Audience: Undergraduate

2. Identify and summarize cultural variation in thinking about what a self is, what responsibilities we have to each other, how we think about groups in society, what is right and wrong, how we should feel, what the world is like, and what the nature of the good life.

Audience: Undergraduate

3. Explain how historical, ecological, and societal factors help to shape cultural variation.

Audience: Undergraduate

4. Understand cultural variation that exists within our own society.

Audience: Undergraduate

5. Hypothesize about factors underlying cultural change and make predictions about the future.

Audience: Undergraduate

PSYCH 532 – PSYCHOLOGICAL EFFECTS OF THE INTERNET

4 credits.

Googling the question, "How is the Internet changing the way we think?" renders no shortage of opinions - or fears. Examine empirical evidence for whether the Internet is changing the way we learn, communicate, socialize, attend, develop, and age. Read and synthesize original research literature, which will be augmented with readings and videos from the popular press.

Requisites: PSYCH 401, 403, 405, 406, 413, 414, 428, 449, 450, 454, 456, 460, 462, 464, SOC/PSYCH 453, PSYCH/GEN&WS 522, or ZOOLOGY/PSYCH 523

Course Designation: Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Identify nine previous technologies or past-times that were previously feared - and appraise how those fears parallel fears about the internet.

Audience: Undergraduate

2. Assess five principles of learning on which Internet based higher education capitalizes.

Audience: Undergraduate

3. Evaluate five challenges that college students face today and how Internet based education can tackle each challenge.

Audience: Undergraduate

4. Critique the claim that the Internet is making interpersonal communication briefer and less formal.

Audience: Undergraduate

5. Illustrate four intentional and four unintentional incidents in which the Internet has amplified mass communication.

Audience: Undergraduate

6. Connect the social psychological principle of similarity attraction to the popularity of online dating apps; connect interpersonal aggression to the phenomena of online bullying and trolling.

Audience: Undergraduate

7. Interpret how and why emotional contagion spreads through the Internet; hypothesize why there are so many photos, gifs, and videos of cats on the Internet.

Audience: Undergraduate

8. Identify how each of the six sources of motivation can affect Internet use; describe five reasons why people binge watch (TV shows or movies).

Audience: Undergraduate

9. Adjudicate four reasons why the Internet is not changing our attention spans.

Audience: Undergraduate

10. Discriminate three primary decision making heuristics and generate an example of how each applies to internet use

Audience: Undergraduate

11. Relate two positive effects of Internet use on adult and two on child development.

Audience: Undergraduate

12. Explain how much variance in Internet activities is accounted for by personality factors; describe four famous selfies made prior to the Internet.

PSYCH/ISYE 549 – HUMAN FACTORS ENGINEERING

3 credits.

Analysis and design of man-machine systems using human performance models and data. Emphasis on systems involving communication and control. Projects using digital and analog computer simulation techniques for system design.

Requisites: ISYE/PSYCH 349, graduate/professional standing, or member of Engineering Guest Students

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Explain the topics involved in cognitive human factors and design implications of these concepts

Audience: Both Grad & Undergrad

2. Describe the interactions between human operators and system components including the environment, technology, and organizations

Audience: Both Grad & Undergrad

3. Discuss different human factors perspectives regarding human error and limitations of human performance, especially as these relate to memory, decision-making, action selection, and workload and stress

Audience: Both Grad & Undergrad

4. Identify barriers and limitations to memory and how these must be accounted for in design of systems and displays

Audience: Both Grad & Undergrad

5. Articulate the role of simulation and modeling in system design involving human operators

Audience: Both Grad & Undergrad

6. Use cognitive engineering analysis methods to complete a detailed analysis of a real incident or accident including outlining each layer and component of system failure and proposing possible redesign solutions

Audience: Graduate

PSYCH 601 – CURRENT TOPICS IN PSYCHOLOGY

3 credits.

Special topics in Psychology at the advanced undergraduate level. May be repeated for credit with different titles.

Requisites: PSYCH 225

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2025

PSYCH 602 – INTERMEDIATE STATISTICS FOR PSYCHOLOGY

3 credits.

Principles of psychological measurement and test theory, including reliability, validity, and test construction. Introduction to correlation, multiple regression, factor analysis, and other data analytic principles.

Requisites: PSYCH 210, SOC/C&E SOC 360, STAT 371, or GEN BUS 303

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2019

PSYCH 603 – EPIGENETICS AND THE BRAIN

3 credits.

Explore nature versus nurture by understanding gene by environmental interactions. Study how the environment and our behavior can modify our genome (epigenetics). Focus on how our behavior and overall health can be shaped by markings on our DNA, and how these markings may be passed onto future generations.

Requisites: (PSYCH 454 or ZOOLOGY/PSYCH 523) and BOTANY/BIOLOGY/ZOOLOGY 152, PSYCH 225, or (BIOCORE 383 and 384)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

Learning Outcomes: 1. Understand the basics of gene x environmental interactions.

Audience: Undergraduate

2. Understand the biological mechanisms of epigenetics.

Audience: Undergraduate

3. Understand multigenerational and transgenerational outcomes of epigenetics.

Audience: Undergraduate

4. Understand epigenetic contributions to disease and mental health.

Audience: Undergraduate

5. Critically read and discuss assigned readings.

Audience: Undergraduate

6. Present a relevant topic of interest to the class and answer questions.

Audience: Undergraduate

7. Design a research project that will answer a specific question and present the project as an oral proposal and a written research proposal.

Audience: Undergraduate

PSYCH 607 – INTRODUCTION TO PSYCHOTHERAPY

3 credits.

Theoretical and applied foundations of psychotherapy. Consider issues of ethics, diversity/inclusivity, and research directions related to psychotherapy. Explore basic and theoretical considerations relevant to therapy including transference and countertransference, emotion, defense mechanisms, boundaries, resistance and early development. Discuss aspects of psychotherapy practice including trauma work, parenting issues, play therapy, family therapy, and couples therapy.

Requisites: PSYCH 225

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Demonstrate understanding of interpersonal dynamics relevant to psychotherapy.

Audience: Undergraduate

2. Communicate effectively through written assignments, oral presentations and discussion.

Audience: Undergraduate

3. Develop proficiency in mastering primary sources and critically evaluating research.

Audience: Undergraduate

PSYCH 610 – DESIGN AND ANALYSIS OF PSYCHOLOGICAL EXPERIMENTS I

4 credits.

Reliability, validity, one-sample t-test, independent-samples t-test, simple and multiple regression, effect size indicators, analysis of variance (ANOVA), analysis of covariance (ANCOVA), case analysis, model assumptions, transformations, polynomial regression, simple mediation, and moderated mediation.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Master reliability and validity in empirical research
Audience: Graduate

2. Master inferences about a single mean (t-test)

Audience: Graduate

3. Master analysis of single and multiple dichotomous predictors (ANOVA)

Audience: Graduate

4. Master analysis of single and multiple continuous predictors (regression)

Audience: Graduate

5. Master analysis of indirect effects (mediation)

Audience: Graduate

6. Master analysis of non-linear relationships (polynomial regression)

Audience: Graduate

7. Generate publication-level graphs

Audience: Graduate

PSYCH/NEURODPT/NTP 611 – SYSTEMS NEUROSCIENCE

4 credits.

Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.

Requisites: NEURODPT/NTP 610 or graduate/professional standing

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Describe the organization and structure of mammalian nervous system, including the spinal cord, brainstem, thalamus, cerebral cortex, cerebellum, basal ganglia, limbic system, and their interconnections on a systems level
Audience: Both Grad & Undergrad

2. Demonstrate a solid understanding of the functions of the sensory and motor systems that underlie perception and action

Audience: Both Grad & Undergrad

3. Demonstrate a solid understanding of higher brain functions and behavior, including learning and memory and executive function

Audience: Both Grad & Undergrad

4. Demonstrate knowledge about approaches of modern neuroscience research including neuroanatomy, neurophysiology, functional brain imaging, behavioral assays, and quantitative data analysis methods

Audience: Both Grad & Undergrad

5. Develop and apply critical thinking to evaluate original neuroscience research

Audience: Graduate

6. Develop ability to formulate hypotheses and to apply knowledge learned from the course to design experiments for hypothesis testing

Audience: Graduate

PSYCH 612 – NEUROPHARMACOLOGY

3 credits.

Comprehensive review of the field of behavioral neuropharmacology, focusing on methodology, major neurotransmitter systems, critical evaluation of experimental evidence regarding behavioral functions of these transmitter systems and drugs used to treat mental illness.

Requisites: (PSYCH 454 or ZOOLOGY/PSYCH 523) and BOTANY/BIOLOGY/ZOOLOGY 152, PSYCH 225, or (BIOCORE 383 and 384)

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. Understand the strengths and limitations of the primary methods used in neuropharmacology.

Audience: Undergraduate

2. Understand the basic principles of drug action as applied to neurotransmitters.

Audience: Undergraduate

3. Identify the major neurotransmitter systems, including the location of the synthesizing neurons, and the different receptors and their second messengers for a given neurotransmitter.

Audience: Undergraduate

4. Recognize evidence arguing for specific behavioral actions of select neurotransmitter systems and the limitations associated with this evidence.

Audience: Undergraduate

5. Think critically about data and hypotheses related to neurotransmitter regulation of behavior.

Audience: Undergraduate

6. Develop/refine skills for efficiently extracting key information from technical literature.

Audience: Undergraduate

PSYCH/ANTHRO/ZOOLOGY 619 – BIOLOGY OF MIND

3 credits.

Origins and structures of mind, brain, and consciousness. Transitions from early mammalian through primate to hominid intelligence. Genetics and plasticity in brain development. Modern studies of human brain mechanisms and consciousness.

Requisites: Junior standing

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

PSYCH 621 – MENTORED RESEARCH AND SEMINAR

1-6 credits.

Develop an understanding of primary research in a topic area and participate in designing and conducting research that challenges and/or extends current understanding of the topic. Course reading will include published research studies relevant to the selected topic.

Requisites: Consent of instructor

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2025

PSYCH 626 – ISSUES IN PRISONER REENTRY

3 credits.

Provides a multi-systemic understanding of evidence-based prisoner reentry issues and solutions while including community-based learning experiences. Considers the needs of formerly incarcerated individuals reentering our communities, including meeting the ultimate goal of decreasing recidivism and increasing positive psychological adjustment for former inmates, their families, and all the staff and community members working in various stages of the justice system.

Requisites: PSYCH 225 and (PSYCH 401 or concurrent enrollment or PSYCH 526 or concurrent enrollment)

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Learning Outcomes: 1. Develop community-based research and engagement skills

Audience: Undergraduate

2. Effectively translate psychological research for a community audience.

Audience: Undergraduate

3. Consider reentry issues from a multisystemic perspective.

Audience: Undergraduate

PSYCH/ISYE 653 – ORGANIZATION AND JOB DESIGN

3 credits.

Design of productive organizations and people's roles within them. Issues including boundary location, organizational decision levels, autonomous work groups, implementation and diffusion. Roles of the union. Case studies.

Requisites: ISYE/PSYCH 349, graduate/professional standing, or member of Engineering Guest Students

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2021

Learning Outcomes: 1. Apply the work system model

Audience: Both Grad & Undergrad

2. Apply a variety of models and theories of job and organization design to answer questions such as, "What makes for a good job?" and "What makes for a bad job?"

Audience: Both Grad & Undergrad

3. Apply interview and survey methods for analyzing jobs

Audience: Both Grad & Undergrad

4. Identify approaches to implement job redesign

Audience: Both Grad & Undergrad

5. Identify societal trends related to job design

Audience: Both Grad & Undergrad

6. Identify similarities and differences between various models and theories of job and organization design

Audience: Graduate

PSYCH/NEURODPT/ZOOLOGY 674 – BEHAVIORAL NEUROENDOCRINOLOGY SEMINAR

2 credits.

Behavior results from a complex interplay among hormones, the brain, and environmental factors. Behaviors and their underlying neural substrates have evolved in response to specific environmental conditions, resulting in vast species diversity in behavioral and neuroendocrine solutions to environmental problems. Designed to explore the primary literature on the neuroendocrine underpinnings of behavior spanning from feeding to sex differences in complex social behaviors. A range of taxonomic groups will be discussed, including (but not limited to) mammals, birds, and fish.

Requisites: ZOOLOGY/BIOLOGY 101, ZOOLOGY/BIOLOGY/BOTANY 151, BIOCORE 383 or graduate/professional standing

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2021

Learning Outcomes: 1. Identify how behaviors and their underlying neural substrates have evolved in response to specific environmental conditions

Audience: Both Grad & Undergrad

2. Discuss and explore the primary literature on the neuroendocrine underpinnings of behavior spanning from feeding to sex differences in complex social behaviors

Audience: Both Grad & Undergrad

3. Identify and discuss hormones, the brain, and environmental factors as they relate to behavioral evolution and biological diversity

Audience: Both Grad & Undergrad

4. Develop and apply critical thinking to evaluate neuroendocrinological research

Audience: Graduate

5. Communicate effectively about concepts, theories and approaches of neuroendocrinology and behavioral research

Audience: Graduate

PSYCH 681 – SENIOR HONORS THESIS

3 credits.

Individual study for students completing senior honors theses as arranged with a faculty member.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

Repeatable for Credit: No

Last Taught: Fall 2024

PSYCH 682 – SENIOR HONORS THESIS

3 credits.

Individual study for students completing senior honors theses as arranged with a faculty member.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 686 – SENIOR THESIS SEMINAR IN PSYCHOLOGY

1 credit.

Focus on the process of conducting, writing, and presenting a senior or honors thesis in Psychology. Discuss the process of research, provide guidance and feedback about writing about research, and offer opportunities to present research issues and findings.

Requisites: Concurrent enrollment in PSYCH 681, 682, 691, or 692

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Accelerated Honors (!)

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Acquire information and skills necessary to complete a senior honors project successfully (e.g., managing one's role in research, presenting one's research to an audience)

Audience: Undergraduate

2. Learn from others conducting senior honors research -- about other topics, methods, and theories in psychology

Audience: Undergraduate

3. Gain skills relevant to the three main arenas of scientific communication: written papers, talks, and poster presentations

Audience: Undergraduate

4. Learn to ask incisive questions about others' research and to critique others' work

Audience: Undergraduate

5. Learn to respond well to questions about or critiques of your research

Audience: Undergraduate

6. Produce a polished and professional report of your senior thesis.

Audience: Undergraduate

PSYCH 691 – UNDERGRADUATE THESIS

1-6 credits.

Undergraduate research including completion of a thesis. Recommended for those intending to do graduate work in psychology.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 692 – UNDERGRADUATE THESIS

1-6 credits.

Undergraduate research including completion of a thesis. Recommended for those intending to do graduate work in psychology.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2025

PSYCH 699 – DIRECTED STUDY

1-3 credits.

Independent mentored study with a faculty member.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

PSYCH 701 – PROSEMINAR IN PERCEPTION, COGNITION, AND COGNITIVE NEUROSCIENCE

1 credit.

Discussion of current topics in perception, cognition, and cognitive neuroscience, especially as illustrated by the planned and ongoing research of the graduate students, postdoctoral researchers, and faculty in these areas. Recent journal articles will also be discussed.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Present research and navigate questions from the group

Audience: Graduate

2. Formulate concise questions about research

Audience: Graduate

3. Evaluate and discuss broader topics in the area of perception, cognitive, and cognitive neuroscience

Audience: Graduate

4. Identify strategies to support their professional development

Audience: Graduate

5. Foster an inclusive community by providing constructive feedback with kindness and a growth mindset

Audience: Graduate

PSYCH 703 – PROSEMINAR IN SOCIAL PSYCHOLOGY

1 credit.

Discussion of current topics in social psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in social psychology. Recent journal articles will also be discussed.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Present research and navigate questions from the group

Audience: Graduate

2. Formulate questions to ask of other speakers

Audience: Graduate

3. Evaluate and discuss broad topics across the field of social psychology

Audience: Graduate

4. Identify strategies to support their professional development

Audience: Graduate

5. Foster an inclusive community by providing constructive feedback with kindness and a growth mindset

Audience: Graduate

PSYCH 704 – PROSEMINAR IN CLINICAL PSYCHOLOGY

1 credit.

Discussion of current topics in clinical psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in clinical psychology. Recent journal articles will also be discussed.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Present research and navigate questions from the group

Audience: Graduate

2. Formulate questions to ask of other speakers

Audience: Graduate

3. Evaluate and discuss broad topics across the field of clinical psychology

Audience: Graduate

4. Identify strategies to support their professional development

Audience: Graduate

5. Foster an inclusive community by providing constructive feedback with kindness and a growth mindset

Audience: Graduate

6. Apply clinical psychology training models and accreditation practices

Audience: Graduate

7. Analyze and evaluate cutting edge clinical psychology research methods

Audience: Graduate

PSYCH 706 – PROSEMINAR IN DEVELOPMENTAL PSYCHOLOGY

1 credit.

Discussion of current topics in developmental psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in developmental psychology. Recent journal articles will also be discussed.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Present research and navigate questions from the group

Audience: Graduate

2. Formulate questions to ask of other speakers

Audience: Graduate

3. Evaluate and discuss broad topics across the field of developmental psychology

Audience: Graduate

4. Identify strategies to support their professional development

Audience: Graduate

5. Foster an inclusive community by providing constructive feedback with kindness and a growth mindset

Audience: Graduate

PSYCH 707 – PROSEMINAR IN BIOLOGICAL PSYCHOLOGY

1 credit.

Discussion of current topics in biological psychology, especially as illustrated by the planned and ongoing research of the graduate students and faculty in clinical psychology. Recent journal articles will also be discussed.

Requisites: Declared in Psychology PhD program

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Present research and navigate questions from the group

Audience: Graduate

2. Formulate questions to ask of other speakers

Audience: Graduate

3. Evaluate and discuss broad topics across the field of biological psychology

Audience: Graduate

4. Identify strategies to support their professional development

Audience: Graduate

5. Foster an inclusive community by providing constructive feedback with kindness and a growth mindset

Audience: Graduate

PSYCH 709 – PROSEMINAR IN DATA SCIENCE IN HUMAN BEHAVIOR

1 credit.

Discussion of current topics in human behavioral data science, including discussion of planned capstone projects, discussion of recent journal articles, training and practice in scientific communication to various stakeholders, and professional development activities.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

Learning Outcomes: 1. Understand how central concepts in data science get applied to problems from industry, government, and nonprofit sectors.

Audience: Graduate

2. Develop skills for pitching your ideas to employers, funding agencies, other professionals, and the public.

Audience: Graduate

3. Understand different potential career pathways and how to prepare for each.

Audience: Graduate

4. Learn best practices for effectively communicating complex scientific ideas and outcomes.

Audience: Graduate

PSYCH 710 – DESIGN AND ANALYSIS OF PSYCHOLOGICAL EXPERIMENTS II

4 credits.

Statistical power, paired-samples t-test, within-subjects ANOVA, mixed models, mediation in within-subjects designs, contrast analysis (= the analysis of categorical predictors with 3 or more levels), multilevel modeling, linear mixed-effects models, restricted maximum likelihood, signal detection theory, logistic regression, exploratory factor analysis, missing data.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. Master analysis of a single and multiple dichotomous within-subject predictors (within-subjects ANOVA)

Audience: Graduate

2. Master analysis of a single and multiple continuous within-subject predictors (mixed models)

Audience: Graduate

3. Master analysis of indirect effects in within-subjects designs (mediation)

Audience: Graduate

4. Master analysis of categorical predictors with 3 or more levels (contrast analysis)

Audience: Graduate

5. Master power analysis

Audience: Graduate

6. Master analysis of dichotomous outcome variables (logistic regression)

Audience: Graduate

PSYCH 711 – CURRENT TOPICS IN PSYCHOLOGY

2-3 credits.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2025

PSYCH 720 – ESSENTIALS OF COGNITIVE NEUROSCIENCE

3 credits.

Provides a broad overview of principles that underlie our understanding of how the structure and function of the brain give rise to cognition and intelligent behavior, and of the methods with which cognitive neuroscience research is carried out. The content covered can be summarized as neuroscience with direct implications for understanding the neural bases of human behavior, and will include anatomical, cellular, systems, behavioral, neuropsychological, and computational levels of analysis. The emphasis will be on domains of behavior traditionally covered by cognitive psychology and neurology, but with explicit consideration, when applicable, of implications for understanding affect, social behavior, and psychopathology.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**PSYCH 728 – CLASSIC ISSUES IN SOCIAL PSYCHOLOGY**

3 credits.

A broad survey of theories and research from the field of social psychology. Areas may include: attitudes and attitude change, conformity and compliance, altruism, attribution theory.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**PSYCH/COUN PSY/RP & SE 729 – ADVANCED SOCIAL PSYCHOLOGY**

3 credits.

Intensive examination of theoretical conceptions in contemporary social psychology, including learning-theoretic, reinforcement, incentive, cognitive, and psychodynamic approaches, and research in selected topic areas reflecting these approaches, such as aggression, attitude formation and change, conformity, limitation and modeling, interpersonal attraction, perception of others, prosocial behavior, and social influence.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2025**PSYCH 733 – PERCEPTUAL AND COGNITIVE SCIENCES**

2 credits.

Current approaches to perceptual and cognitive sciences.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023**PSYCH 740 – CLINICAL I: ASSESSMENT, ETIOLOGY, AND TREATMENT**

1 credit.

Current approaches to assessment, etiology, and treatment of topic material.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2025**PSYCH 741 – CLINICAL II: ASSESSMENT, ETIOLOGY, AND TREATMENT**

1 credit.

Current approaches to assessment, etiology and treatment of topic material.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2022

PSYCH 750 – PROGRAMMING FOR HUMAN BEHAVIORAL DATA SCIENCE

3 credits.

Foundations in programming fundamentals, emphasizing tools and techniques as utilized in human behavioral data science.

Requisites: Declared in Psychology: Human Behavioral Data Science MS or Psychology PhD

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2024

Learning Outcomes: 1. learn Python and best-practices for writing efficient and understandable code, as informed by psychological research and methods for evaluating human behavior

Audience: Graduate

2. learn data wrangling in Python and R

Audience: Graduate

3. learn how to use ggplot to create effective visualizations of complex datasets

Audience: Graduate

4. learn how to scrape data, manage complex data structures, and perform basicanalyses using machine vision

Audience: Graduate

5. learn techniques for automating repetitive tasks.

Audience: Graduate

6. learn how to track and analyze mouse movements

Audience: Graduate

7. be able to efficiently use and build on existing open-source APIs

Audience: Graduate

PSYCH 752 – APPLIED MACHINE LEARNING FOR BEHAVIORAL DATA SCIENCE

3 credits.

Introduction to computational approaches in machine learning for the behavioral sciences.

Requisites: PSYCH 610 and graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2025

Learning Outcomes: 1. develop and refine best practices for data wrangling, general programming, and analysis in R.

Audience: Graduate

2. distinguish among a variety of learning settings: supervised learning vs. unsupervised learning, regression vs. classification

Audience: Graduate

3. implement a broad toolbox of well-supported machine-learning methods: decision trees, nearest neighbor, general and generalized linear models, penalized models including ridge, lasso, and elastic-nets, neural nets, support vector machines

Audience: Graduate

4. develop expertise with common feature extraction techniques for quantitative and categorical predictors

Audience: Graduate

5. use natural language processing approaches to extract meaningful features from text data

Audience: Graduate

6. know how to characterize how well their regression and classification models perform and they will employ appropriate methodology for evaluating their: cross validation, ROC and PR curves, hypothesis testing

Audience: Graduate

7. learn to apply their skills to common learning problems in psychology and behavioral sciences more generally

Audience: Graduate

PSYCH 755 – ENVIRONMENTS AND TOOLS FOR LARGE-SCALE BEHAVIORAL DATA SCIENCE

3 credits.

Provides students with knowledge and experience conducting large-scale behavioral data science projects, independently and in collaboration with others, using a variety of contemporary software tools and environments.

Requisites: PSYCH 750 and 752

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Use online crowd-sourcing platforms for collecting behavioral data, such as Amazon Mechanical Turk, and understand issues of design, sampling, and interpretation associated with such platforms.

Audience: Graduate

2. Use integrated tools for conducting, documenting, and publishing complex behavioral data analyses, including JuPyTeR notebooks and R Markdown.

Audience: Graduate

3. Use the GitHub platform to conduct collaborative behavioral data science, including documentation, analysis development, versioning, forking and merging.

Audience: Graduate

4. Use the SQL database management system to manage large behavioral datasets

Audience: Graduate

5. Use docker containers and related tools for ensuring fully transparent and replicable behavioral data science

Audience: Graduate

6. Understand how to access and use high-throughput and high-performance infrastructure for computationally expensive jobs, and when use of these platforms is warranted.

Audience: Graduate

PSYCH/COMP SCI/ED PSYCH 770 – HUMAN-COMPUTER INTERACTION

3 credits.

Principles of human-computer interaction (HCI); human subjects research methods and procedures, qualitative and quantitative data analysis; and semester-long research project situated in critical domains of HCI, including applications in ubiquitous, affective, assistive, social, and embodied computing.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 790 – CAPSTONE I

5 credits.

Preparation for the applied capstone project, including identifying the project primary literature, relevant tools, and software and communicating these ideas and plans to relevant stakeholders.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Conduct a literature review to understand the current state of the art in a specific problem domain

Audience: Graduate

2. Connect in-class learning experiences to real world datasets and problems.

Audience: Graduate

3. Use online resources to acquire as-needed libraries, toolsets, and knowledge for solving data-science problems in the study of human behavior.

Audience: Graduate

4. Present a concise overview of an important problem and a proposed solution to different audiences.

Audience: Graduate

5. Write a scope-of-work proposal for partners in industry and government.

Audience: Graduate

6. Develop code implementing a data-science workflow relevant to a specific problem.

Audience: Graduate

PSYCH 791 – CAPSTONE II

3 credits.

Conduct applied capstone project, including identifying the project primary literature, relevant tools, and software and communicating these ideas and plans to relevant stakeholders.

Requisites: PSYCH 790**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**Learning Outcomes:** 1. Direct hands-on experience working in a data-science and human behavior setting

Audience: Graduate

2. Understand how data-science tools and concepts from class get applied to large-scale real-world problems

Audience: Graduate

3. Communicate about science with workers and managers in industry, government, nonprofit or lab-based settings

Audience: Graduate

4. Complete a project from conception through design to execution

Audience: Graduate

5. Pitch ideas for solutions to non-experts

Audience: Graduate

6. Prepare for a diverse set of career paths

Audience: Graduate

PSYCH 799 – INDEPENDENT READING

2-3 credits.

Directed study projects for graduate students as arranged with faculty member.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2018**PSYCH 800 – COGNITIVE & NEUROPSYCHOLOGICAL ASSESSMENT FOR DIAGNOSIS**

2 credits.

Introduction to the major approaches and techniques used in the psychological assessment of cognitive functioning of children, adolescents, and adults, with special emphasis on intellectual evaluation. Other cognitive areas to receive focus include; attention, memory, executive function, language, and academic achievement.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**PSYCH 802 – ASSESSMENT OF PSYCHOPATHOLOGY & PERSONALITY**

2 credits.

Introduces the use of structured and semi-structured interviews typically used in psychodiagnostic settings, including research. The assessment of major/common psychopathologies and personality diagnosis will be covered. Additionally, several of the most commonly used clinical self-report and personality measures will be introduced (e.g., PAI, MMPI, BASC).

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**PSYCH 803 – ADVANCED TECHNIQUES IN PSYCHOTHERAPY**

3 credits.

An overview of empirically supported psychotherapeutic movements and their associated history, philosophical underpinnings, and techniques. Oriented toward the theoretical perspective, basic tenets, and the practical techniques/skills of each psychotherapy.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**PSYCH 805 – FIELD WORK IN CLINICAL PSYCHOLOGY**

1-3 credits.

Supervised field work in practical clinical situations.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2025**PSYCH 806 – PRINCIPLES OF PSYCHOTHERAPY RESEARCH**

2 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2023

PSYCH 807 – INTRODUCTION TO CONDUCTING PSYCHOTHERAPY

3 credits.

Introduces and allows practice with the skills needed to conduct individual psychotherapy using a cognitive behavioral approach. Includes interviewing skills, planning and initiating CBT interventions, and the administrative demands of clinical practice. Also includes conducting psychotherapy and participating in individual and group supervision of those therapeutic contacts. During supervision, the client's issues, goals, and progress, will be discussed, as well as the clinician's professional presentation, therapeutic approach and techniques, and communication skills.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2025

PSYCH 808 – CULTURE & DIVERSITY IN CLINICAL PRACTICE

3 credits.

Becoming competent in working with diverse populations in psychotherapy is a complex interaction of many dimensions that involve broad theoretical, conceptual, research, and practice issues. Build multicultural competencies by increasing knowledge of ethnic, race, gender, sexual identity, religious affiliation, and age differences that contribute to each individual course of therapy. Applied examples of this "knowledge in practice" will be presented. Focuses on introducing the concepts of multicultural counseling and assessment, and more specifically on the diversity characteristics of race, ethnicity, and sexual orientation.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2022

Learning Outcomes: 1. Recognize the importance of sensitivity, responsiveness, knowledge, and understanding about ethnicity, sexual orientation, gender identification, social class, age, ability and other characteristics to the ethical practice of clinical psychology.

Audience: Graduate

2. Understand how socio-political forces define and influence identity-based groups; and how these in turn influence the perception, definition, presentation, and treatment of mental health issues and psychological disorders.

Audience: Graduate

3. Demonstrate increased knowledge of current theories and models of individual development within different identity groups.

Audience: Graduate

4. Use culturally-appropriate interventions in clinical and other applied psychological practice.

Audience: Graduate

5. Self-reflect on their ability for self-reflection and awareness of their own attitudes and beliefs that can bias, both positively and negatively, their perceptions of and interactions with individuals who identify as members of specific groups.

Audience: Graduate

PSYCH 809 – ETHICAL AND LEGAL ISSUES IN CLINICAL PRACTICE

3 credits.

An introduction to the legal and ethical issues inherent to the conduct and process of professional clinical psychology. Reviews selected theories of moral philosophy, the American Psychological Association (APA) Ethical Principles and Codes of Conduct for Psychologists, other APA Standards and Guidelines and Wisconsin legal statutes governing the practice of psychology. Integrated with group case discussions and students. Use this as a forum to discuss ethical and legal issues pertinent to their ongoing clinical cases. Focuses on introducing ethical principles; Wisconsin statutes; ethics and legal obligations when clients report suicidal or homicidal thoughts/actions; reporting of neglect and abuse; and record keeping.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2023**Learning Outcomes:** 1. Use the process of active ethical acculturation by learning how to read, discuss, and appreciate the ethical dimensions of professional activities and behaviors, and how they fit with your personal values and background.

Audience: Graduate

2. Develop a working knowledge of the ethical principles, practice standards, regulations and laws governing the historical and current practice of clinical psychology.

Audience: Graduate

3. Develop awareness and understanding of the multiplicity of roles, responsibilities, and involvements of the professional clinical psychologist.

Audience: Graduate

4. Engage in ethical reflection and an appreciation of biases, attitudes, values, and beliefs, as part of a greater strategy for maintaining high levels of professional and ethical conduct.

Audience: Graduate

5. Engage in ethical decision making, including a systematic method of applying guidelines evaluating and resolving ethical dilemmas.

Audience: Graduate

6. Document the ethical decision-making process in order to defend professional decisions and actions.

Audience: Graduate

PSYCH 810 – CLINICAL SUPERVISION, CONSULTATION, & COMMUNITY PSYCHOLOGY

3 credits.

Introduction to supervision and consultation as unique practices. Focuses on purposes of clinical supervision and consultation, theoretical frameworks and models of supervision and consultation, the roles and relationships related to clinical supervision and consultation, and legal, ethical and multicultural issues associated with clinical supervision and consultation. Also includes skill development in building a working alliance with a supervisee; providing developmentally appropriate performance feedback; planning and communicating strategies to develop rapport and motivation to solve problems in clients; negotiation and mediation to reach consensus and move past barriers; understanding and appreciating the diverse cognitive, behavioral, and effective characteristics of supervisees; applying theoretical material to case presentations and related experiential activities.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2024**Learning Outcomes:** 1. Understand the purpose and practice of clinical supervision in different settings and have knowledge of, and be able to describe common theoretical frameworks and models of clinical supervision.

Audience: Graduate

2. Understand the roles and relationships related to clinical supervision and a developing awareness of how personal attitudes and values impact supervision.

Audience: Graduate

3. Identify factors impacting the interpersonal relationship between supervisor and supervisee, and describe steps to promote development of an effective supervisory relationship.

Audience: Graduate

4. Describe various supervision techniques and select appropriate techniques for use in different supervision situations.

Audience: Graduate

5. Assess the needs of therapists in training and develop techniques to help students develop into competent clinical psychologists.

Audience: Graduate

6. Understand the role and process of evaluation in the supervisory process, and be able to select or develop tools for evaluation.

Audience: Graduate

7. Understand the legal, ethical, and multicultural issues associated with clinical supervision, and be able to apply ethical reasoning when presented with dilemmas in practice.

Audience: Graduate

8. Understand of the theory and practice of community psychology.

Audience: Graduate

9. Understand of the theory and practice of consulting psychology

Audience: Graduate

PSYCH 811 – COGNITIVE BEHAVIOR THERAPY

1 credit.

Examines the theory and practice of Cognitive-Behavior Therapy (CBT). Focuses on core issues of CBT from both theoretical and applied perspectives through case conceptualization exercises, role-plays, and application of CBT exercises to themselves.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2022**PSYCH/B M I/COMP SCI 841 – COMPUTATIONAL COGNITIVE SCIENCE**

3 credits.

Studies the biological and computational basis of intelligence, by combining methods from cognitive science, artificial intelligence, machine learning, computational biology, and cognitive neuroscience. Requires ability to program.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**PSYCH/I SY E 854 – SPECIAL TOPICS IN ORGANIZATION DESIGN**

1-3 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2020**Learning Outcomes:** 1. Apply advanced organizational design tools to solve a variety of industrial engineering problems

Audience: Graduate

2. Analyze rigorously the methods used in organizational design

Audience: Graduate

PSYCH/I SY E 859 – SPECIAL TOPICS IN HUMAN FACTORS ENGINEERING

1-3 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2025**PSYCH 901 – MENTORING IN BEHAVIORAL DATA SCIENCE**

1-2 credits.

Learn how to mentor in the field of behavioral data science. Apply mentoring skills to a more junior student.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**PSYCH/ANTHRO 906 – METHODS AND HYPOTHESIS-TESTING FOR BEHAVIORAL ECOLOGISTS**

1-3 credits.

A detailed overview of field methods for behavioral ecologists, focusing specifically on behavioral and ecological sampling techniques. It addresses the challenging process of situating an empirical study within the context of theoretical paradigms.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2020

PSYCH 910 – PSYCHOMETRICS

2 credits.

Focus on the construction, analysis, and interpretation of psychometric assessments, with an emphasis on concepts relevant to clinical psychology. Covers evolving issues in test theory. Extends beyond basic measurement concepts (scales, reliability, validity, bias, etc.) and critiques much of common practice from statistical and philosophical perspectives. Emphasizes that assessment always occurs in a societal context, which sometimes threatens validity.

Requisites: PSYCH 610 and declared in Psychology PhD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2022**Learning Outcomes:** 1. Learn the tenants of test theories (classical, IRT), with a focus on psychological tests.

Audience: Graduate

2. Learn to write good test items.

Audience: Graduate

3. Use factor analysis and reliability analysis to construct a scale.

Audience: Graduate

4. Evaluate different types of validity.

Audience: Graduate

5. Learn methods of evaluating bias and fairness of tests. Understand the impact of societal forces, such as racial discrimination, in evaluating test bias and fairness.

Audience: Graduate

6. Understand the use of tests for screening, including the roles of specificity, sensitivity, and base rates.

Audience: Graduate

7. Show the ability to engage in scholarly analysis with peers and the instructor by engagement on the discussion boards.

Audience: Graduate

8. Gain experience making narrated video presentations with Powerpoint or Keynote. By doing so, become responsible for part of the course content.

Audience: Graduate

PSYCH 918 – SEMINAR-GENERAL PSYCHOLOGY

1-3 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023**PSYCH 930 – SEMINAR-SOCIAL PSYCHOLOGY**

2-3 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2023**PSYCH/GEN&WS 932 – PSYCHOLOGY OF WOMEN AND GENDER**

3 credits.

Examines research and theory in psychology of women and gender. Topics include feminist approaches to research methods, psychological gender differences and similarities, women of color, mental health and feminist therapy, rape, sexual harassment, transgender issues and research, and public policy issues.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2023

Learning Outcomes: 1. Understand psychological research and theories on women and gender, at a level of proficiency to be qualified to teach an undergraduate course on the psychology of women and gender, and/or begin to conduct psychological research on gender, and/or conduct more gender-sensitive therapy.

Audience: Graduate

2. Apply feminist approaches and critiques in psychology.

Audience: Graduate

3. Understand the enormous diversity among women and trans folks along dimensions of ethnicity, social class, and sexual orientation.

Audience: Graduate

PSYCH 954 – SEMINAR-PHYSIOLOGICAL PSYCHOLOGY

2-3 credits.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Fall 2020**PSYCH 990 – RESEARCH**

1-12 credits.

Independent experimental, observational, or statistical investigation under the supervision of a staff member.

Requisites: Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Summer 2025

PSYCH/COUN PSY/ED PSYCH/RP & SE 995 – PREDOCTORAL INTERNSHIP

0 credits.

Registration for Ph.D. students who have successfully defended the dissertation and are in the process of completing the required predoctoral internship.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Summer 2025