Psychology is the scientific investigation of human and animal behavior. Psychologists study behavior in systems ranging from single cells to the individual person, from small groups of people to communities. Psychologists strive to describe behavior and to understand its underlying biological and social mechanisms. This enterprise, designed to better understand the human condition, accumulates knowledge that can help solve problems faced by individuals and by communities. Students that graduate with a major in psychology acquire a wide range of knowledge and useful skills that allows them to find employment in many different areas.

Areas of interest in psychology, and many of these are reflected in the similarly-titled concentrations that are available within the major:

- **Behavioral Neuroscience** is the study of the biological mechanisms underlying behavior. Biological psychologists generally are interested in the brain and the nervous system, in the endocrine system, and in other organic processes.
- **Clinical psychology** is the study of problems encountered by individuals, groups, and families — especially problems involving psychopathology. Clinical psychologists are interested in the application of psychological knowledge and techniques for the alleviation of these problems.
- **Community psychology** is the study of the social processes and problems of groups, organizations, and neighborhoods, and the development and evaluation of programs for social change and social policy based on psychological understanding.
- **Cognitive neuroscience** is concerned with understanding the neuroscientific bases of cognition. Various methods are employed to assess the roles of different brain systems in psychological functions such as memory, attention, language, executive control, decision making, response processing, and emotion.
- **Cognitive psychology** is the study of basic behavioral and cognitive processes, including learning, memory, problem-solving, motivation, and language.
- **Developmental psychology** is the study of intellectual development, emerging personality, and the acquisition of language, as well as psychophysiological and social development processes as individuals develop from birth through old age.
- **Engineering psychology** is the study of human behavior in the context of interactions between humans and machines.
- **Organizational psychology** is the application of techniques of assessment, prediction, and intervention to areas of human resources in organizations, including, but not limited to, standard personnel selection and training, attitude assessments and interventions, and program evaluations.
- **Personality psychology** focuses on individual behavior. It is the study of ways to understand and describe an individual's behavior and to predict an individual's future behavior.
- **Quantitative psychology** specialists develop mathematical models of psychological processes and devise methods for quantitative representation and analysis of data about behavior. These are used in the study of differences between individuals in ability, personality, preferences, and other psychological phenomena.
- **Social psychology** is the study of attitudes, social perception and cognition, interpersonal relations, interpersonal interactions, and social and cultural factors affecting human behavior.
- **Visual cognition and human performance** is the study of attention, visual perception, visual memory, and human performance. Visual cognition research uses tools drawn from cognitive psychology and cognitive neuroscience to better understand how visual information is perceived and remembered.

**Prescribing Psychologists:**

The states of Illinois, New Mexico and Louisiana now allow appropriately qualified psychologists to write prescriptions for psychotropic medications, if they have the necessary training. There are many other states that currently have pending prescriptive authority legislative initiatives. One component of becoming a prescribing psychologist is completion of the following undergraduate courses:

- 2-semester course sequence in chemistry or biochemistry with lab
- 1 semester microbiology with lab
- 1 semester general biology for science majors
- 1 semester physiology
- 1 semester human anatomy
- 1 semester physiology and anatomy
- Medical terminology (class or proficiency)

For more information on becoming a prescribing psychologist and a detailed list of which courses meet these requirements, please consult with one of the academic advisors in psychology.

**Undergraduate Program**

The Psychology program of study is a broad-based curriculum within a research-focused department. The program is designed both for students interested in a liberal arts education with psychology as a focal area and for students who plan to attend graduate or professional school either in psychology or in a different field such as medicine, law, social work, business administration, counseling, labor relations and many others.

The Psychology major provides both depth and breadth of knowledge in Psychology. The major consists of an introductory course, a statistics course, a breadth of knowledge or foundation in the different areas of psychology that comes from a set of core courses, a research methods course, and elective courses that give students a depth of knowledge. Each concentration, except for intradisciplinary psychology, has a core course specific to that area of psychology with a research methods course designed for that concentration. In formulating their Plan of Study, students can decide either to undertake a concentration in Intradisciplinary Psychology and select courses that focus on their own unique interests or to specialize in a particular area of Psychology by fulfilling the requirements for one of the other concentrations listed below. As undergraduate students fulfill the requirements, they also have the opportunity to participate in current research projects by working in labs. Students should contact our Undergraduate Advising Office for help in creating a plan of study and research that best meets their goals and interests.
Departmental Distinction: To be eligible for graduation with Distinction in Psychology, a student must complete a two-semester research sequence in PSYC 494, submit a Senior Thesis that must be approved by the department, and maintain an overall 3.0 GPA at the time of submission. A student can also enroll in PSYC 492 to facilitate the preparation of a Bachelor's thesis.

To be eligible for High or Highest Distinction, a student must first be admitted to the Honors Program (requirements: junior standing, 3.5 GPA in Psychology overall, and completion of the statistics an laboratory requirements). The student then has to complete the three semester Honors sequence (PSYC 398, PSYC 498, PSYC 499), submit a Senior Thesis that must be approved by the department, and maintain an overall GPA of at least 3.0 to be awarded High Distinction or a GPA of 3.5 for Highest Distinction.

Academic Advising
The Psychology Undergraduate Advising Office is open to help students choose patterns of courses relevant to their interests, as well as to help students explore graduate school, professional school, and career options. Advising is done by an award-winning staff of academic professionals along with mentoring by faculty for students with research interests. Peer registration assistants are also available to help with the registration process.

Major in Sciences and Letters Curriculum
E-mail: psych-advising@illinois.edu

Degree title: Bachelor of Science in Liberal Arts and Sciences.

Students must meet the requirements for one of the concentrations as listed below. Minimum required concentration and supporting course work equates to 32-36 hours of Psychology courses, including at least 12 hours of advanced coursework in Psychology. Please see your academic advisor. Concentrations can be declared during the second semester of the junior year. A Major Plan of Study Form must be completed and submitted to the LAS Student Academic Affairs Office before the end of the fifth semester (60-75 hours).

For all concentrations, twelve hours of 300- and 400-level courses in Psychology must be taken on this campus.

Minimum hours required for graduation is 120.

Students must also complete the Campus General Education requirements (https://courses.illinois.edu/gened/DEFAULT/DEFAULT) including the campus general education language requirement.

Concentrations

- Intradisciplinary Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/intradisciplinary-psychology)
- Behavioral Neuroscience (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/behavioral-neuroscience)
- Clinical/Community Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/clinical-community-psychology)
- Cognitive Neuroscience (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/cognitive-neuroscience)
- Cognitive Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/cognitive-psychology-concentration)
- Developmental Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/developmental-psychology-concentration)
- Diversity Science (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/diversity-science-concentration)
- Organizational Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/organizational-psychology-concentration)
- Personality Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/social-personality-psychology-concentration)
- Social Psychology (http://catalog.illinois.edu/undergraduate/las/academic-units/psychology/social-psychology-concentration)

Minor in Psychology
The minor in psychology should be tailored to each student's individual needs. The Psychology minor is suitable for students who intend to pursue careers in a wide variety of fields including business, medicine, law, political science, and education. Students should work with their major advisor to determine the Psychology courses that best fit their interests and career goals.

Email: psychology@illinois.edu

Department website: http://www.psychology.illinois.edu

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>PSYC 100</td>
<td>Intro Psych 1</td>
<td>3-4</td>
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<tr>
<td>PSYC 235</td>
<td>Intro to Statistics (or equivalent) 2</td>
<td>3</td>
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Biological/Cognitive Psychology Course

Select one from the following:

- PSYC 204 | Intro to Brain and Cognition                 |
- PSYC 210 | Behavioral Neuroscience                      |
- PSYC 220 | Images of Mind                               |
- PSYC 224 | Cognitive Psych                              |
- PSYC 230 | Perception & Sensory Processes               |
- PSYC 248 | Learning and Memory                         |

Clinical/Developmental/Social Psychology Course

Select one from the following:

- PSYC 201 | Intro to Social Psych                        |
- PSYC 216 | Child Psych                                 |
- PSYC 238 | Psychopathology and Problems in Living      |
- PSYC 239 | Community Psych                             |
- PSYC 245 | Industrial Org Psych                        |
- PSYC 250 | Psych of Personality                        |

Select two 300- or 400-level Psychology courses

Total Hours: 18-19

The Psychology Minor requires 18 hours of Psychology courses. PSYC 290, PSYC 340, PSYC 341, PSYC 398, PSYC 492, PSYC 494, PSYC 495, PSYC 498, and PSYC 499 credit hours cannot be counted toward the minor requirement.

1 Students who transfer credit from another institution only receive 3 credits for PSYC 100.
This course satisfies the General Education Criteria for:

PSYC 100 or PSYC 103.

Prerequisite: PSYC 100 or PSYC 103.

Systematic study of social factors in individual and group behavior; attention to social perception, motivation, and learning; attitudes, norms, and social influence processes; the development and dynamics of groups; and the effects of social and cultural factors on the individual. Prerequisite: PSYC 100 or PSYC 103.

This course satisfies the General Education Criteria for:

Social Beh Sci - Beh Sci

PSYC 204 Intro to Brain and Cognition credit: 3 Hours.

Introduction to the interdisciplinary field of cognitive neuroscience, which is concerned with how the cognitive systems supporting a broad range of capacities including memory, attention, and social and emotional processing, arise from the functioning of specific brain modules and brain mechanisms. Emphasizes how functional brain imaging and other cognitive neuroscience methods can be brought to bear on answering these questions. Prerequisite: PSYC 100 or PSYC 103 or PSYC 105.

PSYC 207 Psychology of Prejudice and Discrimination credit: 3 Hours.

Examines the psychological causes and social consequences of prejudice and discrimination in society. Learn about the current state of prejudice and discrimination in the U.S., empirical methods for studying prejudice and discrimination, and psychological interventions for reducing prejudice and discrimination. Topics include stereotyping, cognitive biases, group conflict, ideology, implicit associations, subtle and benevolent forms of prejudice, and microaggressions. This course satisfies the General Education Criteria for:

Social Beh Sci - Beh Sci

PSYC 210 Behavioral Neuroscience credit: 3 Hours.

Survey of current knowledge and speculation regarding the brain's role in perception, motivation, sexual behavior, thinking, memory, and learning, based upon human clinical data and research in animal models. Prerequisite: PSYC 100, PSYC 103, or consent of instructor. This course satisfies the General Education Criteria for:

Nat Sci Tech - Life Sciences

PSYC 216 Child Psych credit: 3 Hours.

Study of the psychological development of the child. Credit is not given for both PSYC 216 and EPSY 236. Prerequisite: PSYC 100 or PSYC 103.

PSYC 220 Images of Mind credit: 3 Hours.

Introduction to neuroimaging and cognitive neuroscience, with a particular emphasis on critically evaluating neuroimaging in the media. In addition to surveying reports in the popular press and their corresponding science articles, covers basic neuroanatomy, neuroimaging techniques, and a range of topics from cognitive neuroscience. Prerequisite: PSYC 100, PSYC 103, PSYC 105 or consent of instructor.

PSYC 224 Cognitive Psych credit: 3 Hours.

Introduction to the psychological study of human information processing and memory; acquisition, retrieval, and forgetting; and general knowledge, concepts, reasoning, and related issues in cognition. Prerequisite: PSYC 100 or PSYC 103.

PSYC 230 Perception & Sensory Processes credit: 3 Hours.

Survey of the experimental psychology of sensory and perceptual processes and behavior; emphasis on the contribution of behavior science to understanding subjective experience of the physical and social environment. Prerequisite: An introductory course in psychology, physiology, or animal biology.

PSYC 235 Intro to Statistics credit: 3 Hours.

Development of skill and understanding in the application of statistical methods to problems in psychological research; topics include descriptive statistics, probability theory and distributions, point and interval estimation, and hypothesis testing. Credit is not given for both PSYC 235 and any of STAT 100, ECON 202, EPSY 480, PSYC 301, SOC 485. Prerequisite: PSYC 100 or PSYC 103; college algebra or equivalent; or consent of academic advisor. This course satisfies the General Education Criteria for:

Quantitative Reasoning I
PSYC 238  Psychopathology and Problems in Living credit: 3 Hours.
Conceptions and facts about disordered behavior, including psychoses, neuroses, and other patterns of psychological disturbance. Prerequisite: PSYC 100 or PSYC 103.

PSYC 239  Community Psych credit: 3 Hours.
Redefines human and social problems and the implications for social programs and policies; reviews the historical antecedents, conceptual models, strategies and tactics of social and community programs; and employs examples from selected social systems (e.g., criminal justice, education, employment, and mental health). Prerequisite: PSYC 100 or PSYC 103.
This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

PSYC 245  Industrial Org Psych credit: 3 Hours.
Systematic study of the application of psychological methods and principles in business and industry; emphasis on personnel selection and factors influencing efficiency. Prerequisite: PSYC 100 or PSYC 103; credit or concurrent registration in a statistics course.

PSYC 248  Learning and Memory credit: 3 Hours.
Survey of basic phenomena in learning and memory emphasizing experimental data from animal and human research. Prerequisite: PSYC 100 or PSYC 103.

PSYC 250  Psych of Personality credit: 3 Hours.
Study of personality from various points of view: biological, experimental, social, and humanistic; surveys theory and empirical research in the study of personality. Prerequisite: PSYC 100 or PSYC 103.

PSYC 265  Power, Status, and Influence credit: 3 Hours.
Explores how individuals experience power, status, and influence. The course will focus on the personality and social factors that lead people to attain an elevated rank in society. We will examine how social position shapes basic psychological processes including social perception, relationship strategies, emotion, and well-being across the life course. Multiple forms of power and status will be studied, including those based on peer respect, class, race, gender, and physical dominance.

PSYC 290  Research Experience in Psych credit: 1 to 4 Hours.
Supervised participation in research and scholarly activities, usually as an assistant to an investigator. Approved for S/U grading only. May be repeated to a maximum of 9 hours. Prerequisite: Ten hours of psychology or cognate area, or written consent of instructor.

PSYC 296  Introduction to Current Topics in Psychology credit: 0 to 3 Hours.
Introductory treatment of current topics in the field of psychology. May be repeated up to 6 hours in the same semester, to a total of 9 hours in subsequent semesters. Prerequisite: PSYC 100 or consent of instructor.

PSYC 301  Psychological Statistics credit: 5 Hours.
Development of skill and understanding of statistical methods for problems in psychological research; topics include descriptive statistics, probability theory and distributions, point and interval estimation, and hypothesis testing. The class also involves a computer laboratory. Strongly recommended to students who plan to pursue graduate studies in Psychology. Credit is not given for both PSYC 301 and any of STAT 100, ECON 202, EPSY 480, PSYC 235, SOC 485.
This course satisfies the General Education Criteria for: Quantitative Reasoning I

PSYC 302  Applied Neuroscience credit: 3 Hours.
Examines topics in neuroscience highly relevant to our daily lives, especially as it pertains to mental health. Topics include neurobiology related to anxiety, depression, addiction, exercise, learning, memory, and personality characteristics. Special attention will be paid to race, sex, and socioeconomic differences and their influence on both genetic risk and environmental stress. The class will emphasize critical thinking and conceptualization and will frequently include open discussions. Same as NEUR 302. Prerequisite: PSYC 100 or equivalent.

PSYC 306  Psychology of Morality credit: 3 Hours.
Examines major topics in the psychology of religion and spirituality to promote reflection on how religion shapes attitudes, behavior, and contemporary U.S. society. Through the lens of psychology, we explore questions such as: Why are some people religious and spiritual? How do we study religion and spirituality from a psychological perspective? What role does religion play in promoting health? Overall, we will examine these and other questions to promote greater understanding regarding the role of religion and spirituality in the lives of individuals and larger society. Same as REL 308. Prerequisite: PSYC 100 or equivalent.

PSYC 308  Psychology of Religion and Spirituality credit: 3 Hours.
Examines major topics in the psychology of religion and spirituality to promote reflection on how religion shapes attitudes, behavior, and contemporary U.S. society. Through the lens of psychology, we explore questions such as: Why are some people religious and spiritual? How do we study religion and spirituality from a psychological perspective? What role does religion play in promoting health? Overall, we will examine these and other questions to promote greater understanding regarding the role of religion and spirituality in the lives of individuals and larger society. Same as REL 308. Prerequisite: PSYC 100 or equivalent.

PSYC 311  Behavioral Neuroscience Lab credit: 4 Hours.
Introduction to the research techniques used in behavioral neuroscience: includes behavioral analysis of drug effects, anatomy of the brain, hormones and behavior, neural circuits and related topics. Students will have direct experience working with laboratory rats to understand their importance in the advancement of our knowledge about how the brain functions. Prerequisite: Credit or concurrent registration in PSYC 210, or consent of instructor.

PSYC 312  Psychology of Race & Ethnicity credit: 3 Hours.
Exploration of the theoretical, empirical, and experiential writings concerning the issues of race and ethnicity as they relate to human behavior from the perspective of the individual in various social contexts. Same as AFRO 312. Prerequisite: PSYC 100.

PSYC 314  Introduction to Aging credit: 3 Hours.
Same as CHLH 314, HDFS 314, RST 314, and REHB 314. See CHLH 314.

PSYC 316  Intro to Psych of Hearing credit: 3 Hours.
Examines the physiology and psychophysics of hearing from the micromechanics of the cochlea to the localization of sound and the acoustics of concert halls, to understand how the auditory system processes information to create perceptions of acoustic events. Prerequisite: PSYC 210.

PSYC 318  Psych of the Infant credit: 3 Hours.
Early infant behavior, emphasizing critical evaluation of the various research techniques; prenatal and perinatal influences, ontogeny of psychological processes, environmental determinants, and infant assessment. Prerequisite: PSYC 216.
PSYC 320  The Teenage Years  credit: 3 Hours.
An introduction to development during the teenage years (12-18).
The course will cover research on biological, cognitive, social, and emotional development. Topics will include pubertal development and its social consequences, changing relationships with parents, identity development, the increasingly important role of peers, school adjustment, the emergence of psychopathologies, and high risk behaviors such as substance use. The course will focus on normative development in the U.S., but it will also cover cross-cultural development. Prerequisite: PSYC 100 and PSYC 216.

PSYC 321  Human Memory  credit: 3 Hours.
Advanced treatment of human memory. Examines basic theory and methodology; types of memory; semantic, episodic, procedural, memory for language, places, and events; knowledge and memory; autobiographical memory; exceptional memory; mnemonics. Prerequisite: Six hours in psychology at or above the 200 level, such as PSYC 224 or PSYC 248.

PSYC 322  Intro Intellectual Disability  credit: 3 Hours.
Same as REHB 322 and SPED 322. See SPED 322. This course satisfies the General Education Criteria for: Social Beh Sci - Beh Sci

PSYC 324  Developmental Psychopathology  credit: 3 Hours.
Overview of major theories and research in the field of developmental psychopathology. An emphasis will be placed on understanding how psychopathology is conceptualized from a developmental perspective. Topics will involve issues related to etiology, assessment, classification/diagnosis, and intervention. A range of psychological problems in childhood and adolescence will be discussed to illustrate the central themes. Prerequisite: PSYC 100 and either PSYC 216 or PSYC 238, or consent of instructor.

PSYC 326  Development and Relationships  credit: 3 Hours.
Advanced overview of theory and research on interpersonal relationships across the life course and their implications for emotion, cognition, and behavior. Particular emphasis is placed on close relationships, i.e., romantic partners, family members, and mentors. Same as EPSY 330. Prerequisite: PSYC 216.

PSYC 328  Psychology of Gender  credit: 3 Hours.
Discusses the similarities and differences between males and females across the lifespan, looking at possible biological and social explanations. Some of the topics covered include how children learn gender roles, similarities and differences across cognitive and social abilities, mental and physical health, and gender in different settings, including at work, at school, and at home. The course will also focus on agents of socialization, including the media, peers, and family. Prerequisite: PSYC 100 or equivalent.

PSYC 331  Cognitive Psych Lab  credit: 4 Hours.
Examination of the methods used to study human thought processes, including attention, memory, decision-making, language and concepts. Students will learn to design, carry out, and report research in cognitive psychology. Prerequisite: PSYC 224 or PSYC 248; PSYC 235.

PSYC 332  Social Psych Methods Lab  credit: 4 Hours.
Lecture and laboratory in the methods and techniques of social psychology research in laboratory settings. Same as SOC 382. Prerequisite: PSYC 201; PSYC 235 or SOC 280.

PSYC 333  Social Psych in Society Lab  credit: 4 Hours.
Methods and techniques of social psychological research in natural settings. Students formulate and carry out research problems using procedures appropriate for research in natural settings. Prerequisite: PSYC 201; PSYC 235 or SOC 280.

PSYC 334  Perception Lab  credit: 4 Hours.
Examination of the research methods used to study human visual and spatial processes, including visual illusion, attention, imagery, navigation and spatial memory. Students will learn to design, carry out, and report psychological research. Prerequisite: PSYC 230 and statistics (PSYC 235 or equivalent).

PSYC 336  Topics in Clin/Comm Psych  credit: 3 Hours.
Survey and critical review of subdisciplines in clinical/community psychology; concepts, methods, and assessments, intervention strategies and tactics. Subdisciplines addressed will vary. See Class Schedule for current titles. May be repeated with approval to a maximum of 6 undergraduate hours in same term, or to a maximum of 9 undergraduate hours in subsequent terms. Prerequisite: PSYC 238 or PSYC 239 or both depending on topic.

PSYC 340  Community Projects  credit: 4 Hours.
Principles of psychology applied to service problems in the community; students serve as nonprofessional mental health workers in supervised experiences in schools, hospitals, and other nontraditional settings. May be repeated in the same or subsequent terms to a maximum of 8 undergraduate hours. Prerequisite: PSYC 100; junior or senior standing; and consent of instructor. Individual sections may require additional courses and prerequisites - consult the instructor.

PSYC 341  Advanced Community Projects  credit: 4 Hours.
Advanced discussion and practicum on principles of psychology which may supplement mental health and other human services in a community. Students serve as nonprofessional mental health workers in supervised experiences in school hospitals and other nontraditional settings. May be repeated in the same or subsequent terms to a maximum of 8 undergraduate hours. Prerequisite: PSYC 340 and consent of instructor.

PSYC 350  Personality Lab  credit: 4 Hours.
Study of personality emphasizing active participation in designing, conducting, analyzing, and presenting of research; lectures concern the practical aspects of research methodology and the philosophy of personality research; and laboratory involves conducting original research in small groups. Prerequisite: PSYC 235 or equivalent; and PSYC 250 or consent of instructor; completion of campus Composition I general education requirement.

PSYC 351  Thinking and Reasoning  credit: 3 Hours.
An overview of historical and contemporary research on thinking, reasoning, and problem-solving. Topics will include normative systems of logic, defeasible/non-monotonic reasoning, psychological models of reasoning, heuristic problem-solving, insight and creativity, Bayesian decision-making, decision-making biases, and fast-and-frugal heuristics. Same as PHIL 351. Prerequisite: Either PSYC 100 and PSYC 224, or PHIL 101 and PHIL 102, or consent of instructor.

PSYC 352  Attitude Theory and Change  credit: 3 Hours.
Comprehensive analysis of theories of attitude acquisition, organization, and change; emphasis on attitude change through communication and effects of persuasive communication on public opinion. Same as MACS 352 and SOC 300. Prerequisite: PSYC 201 or equivalent.
PSYC 353  Social Cognition  credit: 3 Hours.
Analysis of theory and research on problems related to the manner in which persons judge themselves and others on the basis of information received; topics include impression formation integration, determinants of interpersonal attractions, and attribution processes. Prerequisite: PSYC 201 and PSYC 235, or consent of instructor.

PSYC 356  Evolution of Mind  credit: 3 Hours.
Interpretation of human thought and behavior through the lens of evolutionary theory. Presents the basics of evolutionary theory as applied to human and animal psychology, describes the results of research on selected subtopics, and evaluates alternative explanations of human behavior that historically have been offered and continue to influence the social sciences today. The goal is to enhance understanding of why we behave the way we do. Special emphasis will be places on philosophical analysis of the presented material. Same as PHIL 356. Prerequisite: PSYC 100 or PHIL 101 or MCB 150 or consent of instructor.

PSYC 357  Intro Cognitive Science  credit: 3 Hours.
In-depth introduction to cognitive science: the study of mind and intelligence, natural and artificial. Covers major integrative themes including inverse optics and vision; induction and reasoning; learnability; language; philosophy; minds and brains; evolution; computation and computability; experimental and modeling techniques; information theory; knowledge representation; interrelations among these topics. Same as PHIL 357. Prerequisite: One of PSYC 224, PSYC 248, PHIL 202, PHIL 270, or consent of instructor.

PSYC 358  Human Factors  credit: 4 Hours.
Same as IE 340. See IE 340.

PSYC 361  The Psychology of Aging  credit: 3 Hours.
Survey of changes in behavioral function in later adulthood, with emphasis on methodologies for studying aging cognitive function, personality, social psychology, and psychopathology. Prerequisite: PSYC 100; Recommended: PSYC 216 or PSYC 224.

PSYC 363  Developmental Child Psych Lab  credit: 4 Hours.
Provides students with a background in developmental research methodology, such as observational techniques used with children. Students will gain experience collecting data and learn how to write research papers. Prerequisite: PSYC 216 and PSYC 235, or equivalent.

PSYC 365  Stress, Trauma and Resilience  credit: 3 Hours.
Provides an overview of traumatic stress, with a particular emphasis on the biological and social factors that shape human responses to trauma. Students will become familiar with the definition and range of potentially traumatic events in various social contexts (e.g. military vs. civilian), as well as the genetic and environmental features that influence vulnerability vs. resilience to trauma. Prerequisite: PSYC 100 or equivalent.

PSYC 370  Understanding Suicide  credit: 3 Hours.
Exploration of the enigma of suicide, covering its many dimensions including the historical, literary, neurobiological psychological, sociological, cultural, public health, and personal/subjective. Suicide has been studied from each of these perspectives, and while there is agreement that it is a "multidimensional malaise," bringing these dimensions together has been extremely challenging. Explores this challenge through lectures and discussions. Prerequisite: PSYC 238.

PSYC 373  Culture & Psychology  credit: 3 Hours.
Centers on cross-cultural study of substantive areas such as personality, motivation, socialization, interpersonal behavior, psychological environments, cognition and cognitive development, ethnocentrism and stereotypes, and visual perception; emphasis on methodological limitations and contributions of cross-cultural study; and discussion of current problems and research. Same as ANTH 373. Prerequisite: Six hours of psychology or anthropology, or consent of instructor.

PSYC 379  Clinical/Abnormal Psych Lab  credit: 4 Hours.
Introduction to research methods used in clinical psychology covering research concerned with psychopathology. Students will learn concepts and key terms; read and discuss research reports; and obtain first-hand experience designing, carrying out, and reporting on their own research. Students in the class will be the participants for all student-developed research. Prerequisite: PSYC 238.

PSYC 381  Beg Pract in Mental Hlth  credit: 4 Hours.
Didactic instruction and supervised practicum experience in a community treatment agency; self-report, observational, and physiological approaches to client assessment; and lecture-discussion and direct agency experience each week.

PSYC 383  Adv Pract in Mental Hlth I  credit: 4 Hours.
Supervised practicum experiences in a community agency.

PSYC 385  Adv Pract in Mental Hlth II  credit: 4 Hours.
Supervised practicum experiences in a community agency.

PSYC 396  Intermediate Current Topics in Psychology  credit: 0 to 3 Hours.
Intermediate treatment of current topics in the field of psychology. May be repeated to a maximum of 6 hours in a semester, to a maximum of 12 hours in subsequent semesters. Prerequisite: PSYC 100 or consent of instructor; particular sections may have additional 200-level prerequisites.

PSYC 398  Junior Honors Seminar  credit: 3 Hours.
Seminar on experimental methods and contemporary psychological research. Prerequisite: Junior standing and admission to departmental honors program.

PSYC 402  Intro Clin Neuropsych  credit: 4 Hours.
Fundamental concepts of clinical neuropsychology will be introduced, and students will learn the neuropsychological measures that are typically employed in assessment. The course will take a developmental perspective, and readings will address assessment issues in children and adolescents as well as adults. The course will be conducted as a lecture/seminar, with a focus on class participation. Actual testing data will be distributed to the class, and discussion will focus on interpretation and case conceptualization. Students will also be required to learn about and administer tests. 4 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210 and PSYC 238 or consent of instructor.

PSYC 403  Memory and Amnesia  credit: 3 or 4 Hours.
Examination of the nature of amnesia and what it teaches us about the organization of normal human memory. Coverage will include studies of amnesia and other circumscribed memory impairments in human patients, taken from the scientific literature, which will be compared to the descriptions of amnesia in movies, literature, and the media. Same as NEUR 403. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210 and/or PSYC 224, or consent of instructor.
PSYC 404  Cognitive Neuroscience  credit: 3 or 4 Hours.
Examination of research concerned with identifying and characterizing the cognitive systems supporting such capacities as memory, attention, and visual processing, and with understanding how such cognitive activities arise from the functioning of specific brain modules and brain mechanisms. Same as NEUR 405. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210 and/or PSYC 224, or consent of instructor.

PSYC 410  Hate Crimes  credit: 3 Hours.
Same as AFRO 410. See AFRO 410.

PSYC 413  Psychopharmacology  credit: 3 or 4 Hours.
Behavioral and physiological effects of chemicals either used therapeutically to treat psychological disorders or that may be abused for their psychotropic effects; emphasizes mechanisms and models for the study of drug action. Same as NEUR 413. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: PSYC 210, MCB 150, or consent of instructor.

PSYC 414  Brain, Learning, and Memory  credit: 3 or 4 Hours.
Conveys a knowledge of current research on the physiological bases of learning and memory; considers a wide range of topics from molecular (e.g., cellular morphological and functional plasticity) to relatively molar (e.g., effects of clinical and experimental brain damage on learning and memory processes). Same as NEUR 414. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210, MCB 150, or consent of instructor.

PSYC 416  African American Psychology  credit: 3 or 4 Hours.
Same as AFRO 411. See AFRO 411.

PSYC 417  Neuroscience of Eating & Drinking  credit: 3 or 4 Hours.
Eating and drinking are critical to survival. Despite complex and redundant mechanisms, aberrant ingestive behaviors occur and can result in extreme body weights. This course is designed to critically probe and review the current understanding of neural and behavioral mechanisms of eating and drinking. Students will learn how eating and drinking are closely related to physical and mental health, and how to apply this knowledge to live a healthier life. Same as FSHN 417 and NEUR 417. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210, MCB 150, or consent of instructor.

PSYC 420  Theories of Psychotherapy  credit: 4 Hours.
Same as EPSY 420. See EPSY 420.

PSYC 421  Principles of Psychophysiology  credit: 3 or 4 Hours.
Theoretical and practical aspects of human psychophysiology; measurement techniques and the application of psychophysiological principles to problems in developmental, clinical, social, and experimental psychology. Same as NEUR 421. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 235, six hours of psychology, and an introductory course in physiology.

PSYC 423  Language Acquisition  credit: 3 or 4 Hours.
Survey of theory and research on the acquisition of language, concentrating on the acquisition of a first language by the young child. Same as LING 423 and MACS 423. 3 undergraduate hours. 4 graduate hours. Prerequisite: Six hours of psychology or linguistics above the 100-level, or consent of instructor.

PSYC 425  Psych of Language  credit: 3 or 4 Hours.
Survey of theory and research in the psychology of language; topics include relation of linguistics and psychology, language development, and influence of language on perception, memory, and thought. 3 undergraduate hours. 4 graduate hours. Credit is not given for both PSYC 425 and LING 425. Prerequisite: Six hours of psychology or consent of instructor.

PSYC 427  Language and the Brain  credit: 3 or 4 Hours.
Same as LING 427 and SHS 427. See SHS 427.

PSYC 432  Genes and Behavior  credit: 3 Hours.
Same as ANTH 432, IB 432 and NEUR 432. See IB 432.

PSYC 433  Evolutionary Neuroscience  credit: 3 or 4 Hours.
Current methods, tools, and progress in evolutionary biology and quantitative genetics of brain and behavior of vertebrates. Same as NEUR 433 and PHIL 433. 3 undergraduate hours. 4 graduate hours. Prerequisite: IB 150 or PSYC 210.

PSYC 437  Advanced Psychology Lab  credit: 4 Hours.
An advanced laboratory course in different areas of psychology. Detailed descriptions are provided under the individual sections. 4 undergraduate hours. No graduate credit. May be repeated in separate semesters to a maximum of 8 undergraduate hours. Prerequisite: PSYC 100, additional courses and prerequisites may be required depending on the lab.

PSYC 443  Psychophysiology in Ex & Sport  credit: 3 or 4 Hours.
Same as KIN 443. See KIN 443.

PSYC 444  Cognitive Neuroscience Lab  credit: 4 Hours.
Study of the basic principles underlying scanning of the brain using functional Magnetic Resonance Imaging (fMRI). The lectures introduce how to use an MRI scanner, the basic biophysics that makes functional imaging possible, experimental design for fMRI, and basic data analysis. During the labs, students will get hands on experience analyzing fMRI data. Same as NEUR 445. 4 undergraduate hours. 4 graduate hours. Prerequisite: One of the following: PSYC 204, PSYC 210, PSYC 220, or consent of the instructor. PSYC 235 or equivalent is recommended.

PSYC 447  Psych of Sport Performance  credit: 3 or 4 Hours.
Same as KIN 447. See KIN 447.

PSYC 450  Cognitive Psychophysiology  credit: 3 or 4 Hours.
Survey of the theory and practice of using recordings of brain electrical activity to study normal and abnormal perception, attention, decision-making, memory, response preparation, and language. Same as NEUR 450. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 224 or equivalent; PSYC 210 recommended.

PSYC 451  Neurobio of Aging  credit: 0 to 4 Hours.
Study of the neurobiological consequences of aging with an emphasis on brain changes at the cellular and systems level, using animal models of healthy and pathological aging. Same as KIN 458 and NEUR 451. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210 or related courses or consent of instructor.

PSYC 453  Cog Neuroscience of Vision  credit: 3 or 4 Hours.
Overview of the neuroscience of the visual system, the eye and subcortical structures, with a focus on the visual cortex and higher-level vision (e.g. attention and object perception). Same as NEUR 453. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 210, PSYC 220, PSYC 224, PSYC 230 or consent of instructor.

PSYC 455  Organizational Psych  credit: 2 to 4 Hours.
Social psychological research and theory applied to industrial problems; emphasis on interaction and communication theory, role theory, leadership theory, motivational and perceptual theory, and group structure theory as an aid in understanding and analyzing industrial problems. 3 undergraduate hours. 2 to 4 graduate hours. Prerequisite: PSYC 201 or PSYC 245.

PSYC 456  Human Performance and Cognition in Context  credit: 3 or 4 Hours.
Same as EPSY 456 and IE 445. See EPSY 456.
PSYC 462 How Children Think credit: 3 or 4 Hours.
Examines the development of children’s thinking from birth through the preschool and elementary school years. Addresses questions such as the following: What do babies know about the world? What can they perceive, and how do their perceptual abilities develop? How do children come to understand other people’s actions and mental states? How do they think about biological categories (such as animals and plants) and social categories (such as boys and girls)? When and how do children learn what numbers mean? How is children’s development influenced by culture? 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 216.

PSYC 465 Personality and Soc Dev credit: 3 or 4 Hours.
Major theories of personality and social development, with attention to processes of social learning, individual differences in personality development, and outcomes of social development; applications to school, home, and other field settings. Same as EPSY 405. 3 undergraduate hours. 4 graduate hours. Prerequisite: PSYC 216 or EPSY 236 or equivalent.

PSYC 466 Image and Neuroimage Analysis credit: 3 or 4 Hours.
Fundamental concepts, techniques/algorithms, and emerging directions of research in image and neuroimage analysis: image enhancement, image and brain image segmentation, neuroimage registration, functional magnetic resonance imaging (fMRI) time series analysis, and brain connectivity, etc. Same as STAT 466. 3 undergraduate hours. 4 graduate hours. Prerequisite: One of STAT 400, PSYC 406, an equivalent, or consent of instructor; basic programming experience in Matlab, or C/C++, or similar.

PSYC 468 Psych and Law credit: 2 to 4 Hours.
Examines relationship of the administrative, civil, and criminal justice systems to educational and mental health institutions; individual rights, social issues, and psychological well being. 3 undergraduate hours. 2 to 4 graduate hours. Prerequisite: Six hours of social science.

PSYC 472 Environmental Psychology credit: 4 Hours.
Same as NRES 472. See NRES 472.

PSYC 475 Personnel Psych credit: 3 or 4 Hours.
Introduces problems and research relevant to personnel issues in organizations. Topics include: individual differences; selection of personnel; test theory; performance appraisal; equal employment opportunity legislation, regulation, and litigation; assessing bias in selection. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: PSYC 235 or equivalent, and either PSYC 245 or BADM 313.

PSYC 477 Philosophy of Psychology credit: 3 or 4 Hours.
Same as PHIL 477. See PHIL 477.

PSYC 484 Ethical Practice of Statistics credit: 3 or 4 Hours.
Study of the ethical practice of statistics, defined as being in accord with the accepted rules and standards for right conduct that govern the discipline of statistics and its many areas of application. An emphasis is placed on the use of statistical and probabilistic reasoning in the social, behavioral, and biomedical sciences, with particular stress on the relation to law and the judiciary. Same as STAT 484. 3 undergraduate hours. 4 graduate hours. Prerequisite: An introductory statistics class, e.g., PSYC 235, PSYC 301, STAT 100, ECON 202, EPSY 480, SOC 280.

PSYC 489 Neural Network Modeling Lab credit: 3 or 4 Hours.
Introduction to neural network modeling, the principles of neural computation, learning algorithms and the evaluation of neural networks as models of human perception and cognition. 3 undergraduate hours. 4 graduate hours. Prerequisite: College algebra or equivalent; computer programming experience, or consent of instructor.

PSYC 490 Measurement & Test Develop Lab credit: 4 Hours.
The measurement of human behavior in psychological studies; the construction and use of psychological tests; introduction to tests of intelligence, achievement, personality, and interest; and practice in test construction, administration, and validation. Lectures and laboratory. 4 undergraduate hours. 4 graduate hours. Prerequisite: A knowledge of statistics equivalent to that from PSYC 235.

PSYC 492 Capstone Undergrad Research credit: 3 Hours.
Capstone experience for undergraduate students doing advanced research in any area of psychology. Provides in-depth background knowledge of their research, and teaches students to make effective oral and written presentations of their findings. In conjunction with PSYC 494, will facilitate the preparation of a Bachelor’s thesis that can be submitted for the awarding of the departmental distinction at graduation. May be taken for two semesters with the first semester emphasizing a review of the literature and the second semester concentrating on the presentation of the results. 3 undergraduate hours. No graduate credit. May be repeated in separate terms to a maximum of 6 hours. Prerequisite: Senior standing in Psychology, consent of instructor, and students must arrange to do a research project with a faculty member.

PSYC 494 Advanced Research in Psych credit: 1 to 4 Hours.
Supervised independent investigation of special topics in psychology; requires a written report with a final copy submitted for departmental records. 1 to 4 undergraduate hours. No graduate credit. May be repeated to a maximum of 12 hours. Prerequisite: Ten hours of psychology or cognate area, or written consent of instructor.

PSYC 495 Internship Capstone Experience credit: 3 Hours.
This capstone seminar will connect students’ summer internship experiences to their academic major in Psychology and to their career goals. Students will reflect, discuss and build on their internship experiences to help them identify the skills and abilities they have and need to be successful. They will participate in both individual assignments and team projects that will facilitate their ability to communicate in the many different careers available to students with a degree in psychology. 3 undergraduate hours. No graduate credit. Prerequisite: Completion of an internship during previous summer.

PSYC 496 Adv Current Topics in Psych credit: 2 to 4 Hours.
Advanced treatment of current topics in the field of psychology. 2 to 4 undergraduate hours. 2 to 4 graduate hours. May be repeated to a maximum of 9 hours. Prerequisite: PSYC 100 and junior standing, or consent of instructor; particular sections may have additional 200-level and/or 300-level prerequisites.

PSYC 498 Senior Honors Seminar credit: 3 Hours.
Continuation of PSYC 398, this course assists students in the Psychology Honors Program with the researching and writing of an undergraduate honors thesis, under supervision of a faculty member, on a problem of appropriate scope and character. 3 undergraduate hours. No graduate credit. Prerequisite: PSYC 398. This course satisfies the General Education Criteria for: Advanced Composition.
**PSYC 499  Senior Honors Seminar II  credit: 3 Hours.**
The completion of writing of an undergraduate honors thesis, under supervision of a faculty member, on a problem of appropriate scope and character. Students also create posters describing their work for presentation at the Psychology Honors Poster Fair and the Campus Undergraduate Research Symposium. 3 undergraduate hours. No graduate credit. PSYC 398 and PSYC 499 are approved for General Education credit only as a sequence. All courses must be completed to receive Advanced Composition credit. Prerequisite: PSYC 498.
This course satisfies the General Education Criteria for:
Advanced Composition