

# Psychology (PSYC)

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## **PSYC 111. Introduction to Psychology. 3 Credits.**

Survey of the scientific study of behavior and mental processes.

## **PSYC 189. Skills for Academic Success. 1 Credit.**

This course is designed to ease the transition for new students at NDSU. Students will learn skills and techniques used by successful college students. In addition to introducing the students to campus resources and governance, topics will include study techniques, time management, test taking, note taking, goal setting, wellness, stress management, and career orientation.

## **PSYC 194. Individual Study. 1-5 Credits.**

## **PSYC 196. Field Experience. 1-15 Credits.**

## **PSYC 199. Special Topics. 1-5 Credits.**

## **PSYC 210. Human Sexuality. 3 Credits.**

Survey of biological, developmental, and psychological aspects of human sexuality. Prereq: PSYC 111.

## **PSYC 211. Introduction To Behavior Modification. 3 Credits.**

Basic principles and procedures governing acquisition, maintenance, and change of behavior, emphasizing human applications. Laboratory involves designing, implementing, and reporting an individual project. Prereq: PSYC 111.

## **PSYC 212. Psychological Aspects of Drug Use and Abuse. 3 Credits.**

Examination of legal and illegal psychoactive drugs. Emphasis on psychological, physiological, and behavioral effects of these drugs and problems of drug abuse. Prereq: PSYC 111.

## **PSYC 214. Social Interaction. 3 Credits.**

Examination of issues relevant to the study of individual behavior (e.g., self-concept, attitudes, social perception) in a social context. Cross-listed with SOC 214.

## **PSYC 216. Cultural Psychology. 3 Credits.**

Examines the different ways in which cultural variables affect human cognition, emotion, and behavior. This course uses the lens of culture to consider topics such as cognition and emotion, personality, psychopathology, the self, prejudice and intergroup relations, and cultural conflict (e.g., terrorism, genocide). Prereq: PSYC 111.

## **PSYC 221. Psychology Applied to Work. 3 Credits.**

Applications of psychology to people at work. Topics include employee selection, job interviewing, performance appraisal, psychological testing, Equal Employment Opportunity, leadership, motivation, job satisfaction, organizational theory, employee safety and health. Prereq: PSYC 111.

## **PSYC 250. Developmental Psychology. 3 Credits.**

Survey of the psychology of human life span development. Coverage also includes heredity and prenatal development. Prereq: PSYC 111.

## **PSYC 260. Introduction to Neuroscience. 3 Credits.**

An introduction to behavioral neuroscience with an emphasis on what we know about human brain function and what it means for studying and understanding complex human behavior.

## **PSYC 261. Introduction to Cognitive Psychology. 3 Credits.**

An introduction to the scientific study of human cognition covering topics including perception, attention, memory, language, reasoning, problem solving, and intelligence. Prereq: PSYC 111.

## **PSYC 270. Abnormal Psychology. 3 Credits.**

Survey of the classification, symptoms, and etiology of psychological disorders. Attention given to diagnosis, etiology, and treatment according to prominent theoretical perspectives. Focus on empirical basis for understanding these problems. Prereq: PSYC 111.

## **PSYC 280. Introduction to Health Psychology. 3 Credits.**

Describes the interaction of psychology and health, including the ways in which thoughts, emotions, and behavior influence one's health. Prereq: PSYC 111.

## **PSYC 291. Seminar. 1-5 Credits.**

## **PSYC 292. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

## **PSYC 294. Individual Study. 1-5 Credits.**

## **PSYC 299. Special Topics. 1-5 Credits.**

## **PSYC 322. Judgment & Decision-Making. 3 Credits.**

Covers the functional uses of critical thinking. Focuses on uses in problem solving and decision-making. Applications are directed at both personal and professional concerns. Prereq: PSYC 111.

**PSYC 340. Psychology in Sport. 3 Credits.**

This is a survey course outlining the applications of psychological theory to sport settings. Prereq: PSYC 111.

**PSYC 350. Research Methods I. 3 Credits.**

This course teaches scientific method and analysis of data for the social and behavioral sciences. Students completing this course will gain an understanding of descriptive and inferential analyses, including correlation, group comparisons, and non-parametric techniques. Prereq: PSYC 111, MATH 103 or MATH 104 or higher.

**PSYC 351. Research Methods II. 3 Credits.**

Experimental and quasi-experimental designs in psychological research. Laboratory includes performance of experiments, data analysis, and preparation of research reports. Prereq: PSYC 350.

**PSYC 370. Forensic Psychology. 3 Credits.**

Broad overview of the interactions of psychology and the law, including current areas of practice, assessment, and forensic techniques. Special focus upon psychology as applied to and affected by family, civil, and criminal law. Prereq: PSYC 270.

**PSYC 379. Global Seminar. 1-6 Credits.**

NDSU instructed experience or field study in a foreign country. Conducted in English for residence credit. Pre-requisite: Prior approval by International Student and Study Abroad Services and major department. May be repeated. Standard Grading.

**PSYC 380. Clinical Psychology. 3 Credits.**

Introduction to the science and practice of clinical psychology. Includes a survey of the assumptions on which clinical methods are based and an overview of clinical assessment and treatment techniques. Prereq: PSYC 270.

**PSYC 381. Understanding Suicide and its Impact. 3 Credits.**

Overview of current understanding of the dynamics of suicide and its impact upon people left behind following the death.

**PSYC 382. Self-Injury: Recognition & Treatment. 3 Credits.**

Overview of the current understanding of the dynamics of self injurious behavior, of the prevalence of various types of harmful behavior, and of the populations most at risk.

**PSYC 385. Psychology on Film. 3 Credits.**

Many important issues and topics in psychology have been portrayed in feature films and documentaries. Movies and associated readings present significant concepts, persons, and historical events in psychology. Primary focus is on clinical psychology. Prereq: PSYC 111.

**PSYC 391. Seminar. 1-5 Credits.**

**PSYC 392. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

**PSYC 394. Individual Study. 1-5 Credits.**

**PSYC 397. Coop/Internship. 1-5 Credits.**

**PSYC 399. Special Topics. 1-5 Credits.**

**PSYC 440. Experimental Methods. 3 Credits.**

Intermediate experimental design and data analysis with emphasis on the analysis of variance. Laboratory includes data analysis on the computer. Prereq: PSYC 351. {Also offered for graduate credit - see PSYC 640.}

**PSYC 450. Computational Methods in Experimental Psychology. 3 Credits.**

An introduction to fundamental research methods in visual and cognitive neuroscience. This is a computer-based course using MatLab and Psychtoolbox to prepare students for modern psychology laboratory research. Prereq: PSYC 260 or PSYC 351. {Also offered for graduate credit - see PSYC 650.}

**PSYC 453. Organizational Psychology. 3 Credits.**

Survey of topics related to application of psychology to organizational settings. Emphasis on the theoretical bases of individual (leadership, decision making) and social (influence, work group) factors involved in work behavior. 12 credits in psychology and/or management recommended. Prereq: Junior standing. {Also offered for graduate credit - see PSYC 653.}

**PSYC 457. Managing Work Motivation and Morale. 3 Credits.**

An exploration of how the theories of work motivation and morale can be applied to manage the behavior and performance of people at work. Cognitive, behavioral, attitudinal, organizational and individual psychological approaches are considered. Prereq: PSYC 111. {Also offered for graduate credit - see PSYC 657.}

**PSYC 460. Sensation & Perception. 3 Credits.**

Explores physical, anatomical, and physiological bases of sensation and perception and their psychophysical measurement. Laboratory experiments complement lectures and demonstrate various experimental techniques and sensory phenomena. 2 lectures, equivalent of 2-hour laboratory. Prereq: PSYC 351 or PSYC 260. {Also offered for graduate credit - see PSYC 660.}

**PSYC 461. Memory And Knowledge. 3 Credits.**

Examination of current behavioral and neuropsychological research and theory in the area of memory and knowledge representation. Various cognitive phenomena are demonstrated and relevant design issues are highlighted via laboratory experiments. Prereq: PSYC 260 or PSYC 351. {Also offered for graduate credit - see PSYC 661.}.

**PSYC 463. Experimental Developmental Psychology. 3 Credits.**

Examination of historical and contemporary theory and research in cognitive development. Topics include development of visual processing, language skills, concepts, and social cognition, with particular emphasis on methods of investigating psychological development. Prereq: PSYC 351. {Also offered for graduate credit - see PSYC 663.}.

**PSYC 464. Attention & Thinking. 3 Credits.**

Examines current behavioral and neuropsychological research and theory in the area of attention and thought processes. Laboratory experiments will demonstrate various attentional phenomena and highlight relevant design issues. Prereq: PSYC 351. {Also offered for graduate credit - see PSYC 664.}.

**PSYC 465. Psychobiology. 3 Credits.**

Fundamental anatomy (structure) and physiology (function) of the nervous system. Physiological bases of behavior. 2 lectures, equivalent of 2-hour laboratory. Prereq: PSYC 351 or PSYC 260. {Also offered for graduate credit - see PSYC 665.}.

**PSYC 468. Personality. 3 Credits.**

Study of complex human behavior with attention to historically significant theories and current empirical issues. Laboratory experiences illustrate methods of investigating individual differences. Prereq: PSYC 351. {Also offered for graduate credit - see PSYC 668.}.

**PSYC 470. Experimental Social Psychology. 3 Credits.**

Examination of historical and contemporary theory and research in social psychology. Study of the relationship between the individual and social context. 2 lectures, equivalent of 2-hour laboratory. Prereq: PSYC 351. {Also offered for graduate credit - see PSYC 670.}.

**PSYC 471. The Psychology Of Aging. 3 Credits.**

Survey of cognitive and psychosocial development in adulthood and old age, including psychopathologies of old age. Contemporary research findings are emphasized. Prereq: PSYC 111, Junior standing. {Also offered for graduate credit - see PSYC 671.}.

**PSYC 472. Advanced Psychopathology. 3 Credits.**

In-depth coverage of recent research on diagnosis, etiology, and maintenance of behavior disorders emphasizing the interaction of biological, behavioral, and social factors. Prereq: PSYC 270, Junior standing. {Also offered for graduate credit - see PSYC 672.}.

**PSYC 473. Child Psychopathology and Therapy. 3 Credits.**

Overview of the etiology and treatment of behavior disorders in children and adolescents. Emphasis on recent research findings and behavioral intervention strategies. Prereq: PSYC 270 or PSYC 351. {Also offered for graduate credit - see PSYC 673.}.

**PSYC 480. History & Systems. 3 Credits.**

Historical development of scientific psychology. Emphasis on the development of various systems of psychology in America. Capstone experience. Prereq: PSYC 351 or Senior standing. {Also offered for graduate credit - see PSYC 680.}.

**PSYC 481. Health Psychology. 3 Credits.**

Application of behavioral procedures to the prevention, treatment, and rehabilitation of medical disorders. Emphasis on contemporary research findings. Prereq: PSYC 350 or PSYC 260. {Also offered for graduate credit - see PSYC 681.}.

**PSYC 486. Neuropsychology. 3 Credits.**

Introduction to human neuropsychology with emphasis on the neural basis of motor, perceptual, cognitive, emotive, and language behavior. Topics include normal and pathological conditions from clinical and experimental perspectives. Prereq: PSYC 260 or PSYC 351. {Also offered for graduate credit - see PSYC 686.}.

**PSYC 489. Honors Thesis. 1-6 Credits.**

Capstone experience option.

**PSYC 491. Seminar. 1-5 Credits.****PSYC 492. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

**PSYC 493. Undergraduate Research. 1-5 Credits.****PSYC 494. Individual Study. 1-5 Credits.****PSYC 496. Field Experience. 1-15 Credits.****PSYC 499. Special Topics. 1-5 Credits.****PSYC 640. Experimental Methods. 3 Credits.**

Intermediate experimental design and data analysis with emphasis on the analysis of variance. Laboratory includes data analysis on the computer. {Also offered for undergraduate credit - see PSYC 440.}.

**PSYC 650. Computational Methods in Experimental Psychology. 3 Credits.**

An introduction to fundamental research methods in visual and cognitive neuroscience. This is a computer-based course using MatLab and Psychtoolbox to prepare students for modern psychology laboratory research. {Also offered for undergraduate credit - see PSYC 450.}.

**PSYC 653. Organizational Psychology. 3 Credits.**

Survey of topics related to application of psychology to organizational settings. Emphasis on the theoretical bases of the individual (leadership, decision making) (motivation, satisfaction) and social (influence, workgroup) (leadership, work group) factors involved in work behavior. {Also offered for undergraduate credit - see PSYC 453.}.

**PSYC 657. Managing Work Motivation and Morale. 3 Credits.**

An exploration of how the theories of work motivation and morale can be applied to manage the behavior and performance of people at work. Cognitive, behavioral, attitudinal, organizational and individual psychological approaches are considered. {Also offered for undergraduate credit - see PSYC 457.}.

**PSYC 660. Sensation & Perception. 3 Credits.**

Explores physical, anatomical, and physiological bases of sensation and perception and their psychophysical measurement. Laboratory experiments complement lectures and demonstrate various experimental techniques and sensory phenomena. 2 lectures, equivalent of 2-hour laboratory. {Also offered for undergraduate credit - see PSYC 460.}.

**PSYC 661. Memory and Knowledge. 3 Credits.**

Examination of current behavioral and neuropsychological research and theory in the area of memory and knowledge representation. Various cognitive phenomena are demonstrated and relevant design issues are highlighted via laboratory experiments. {Also offered for graduate credit - see PSYC 461.}.

**PSYC 663. Experimental Developmental Psychology. 3 Credits.**

Examination of historical and contemporary theory and research in social and cognitive development. Topics include attachment, adolescent risk-taking, theories of intelligence, and meta-cognition. Laboratory experiences illustrate methods of investigating psychological development. {Also offered for undergraduate credit - see PSYC 463.}.

**PSYC 664. Attention & Thinking. 3 Credits.**

Examines current behavioral and neuropsychological research and theory in the area of attention and thought processes. Laboratory experiments will demonstrate various attentional phenomena and highlight relevant design issues. {Also offered for undergraduate credit - see PSYC 464.}.

**PSYC 665. Psychobiology. 3 Credits.**

Fundamental anatomy (structure) and physiology (function) of the nervous system. Physiological bases of behavior. 2 lectures, equivalent of 2-hour laboratory. {Also offered for undergraduate credit - see PSYC 465.}.

**PSYC 668. Personality. 3 Credits.**

Study of complex human behavior with attention to historically significant theories and current empirical issues. Laboratory experiences illustrate methods of investigating individual differences. {Also offered for undergraduate credit - see PSYC 468.}.

**PSYC 670. Experimental Social Psychology. 3 Credits.**

Examination of historical and contemporary theory and research in social psychology. Study of the relationship between the individual and social context. 2 lectures, equivalent of 2-hour laboratory. {Also offered for undergraduate credit - see PSYC 470.}.

**PSYC 671. The Psychology Of Aging. 3 Credits.**

Survey of cognitive and psychosocial development in adulthood and old age, including psychopathologies of old age. Contemporary research findings are emphasized. {Also offered for undergraduate credit - see PSYC 471.}.

**PSYC 672. Advanced Psychopathology. 3 Credits.**

In-depth coverage of recent research on diagnosis, etiology, and maintenance of behavior disorders emphasizing the interaction of biological, behavioral, and social factors. {Also offered for undergraduate credit - see PSYC 472.}.

**PSYC 673. Child Psychopathology and Therapy. 3 Credits.**

Overview of the etiology and treatment of behavior disorders in children and adolescents. Emphasis on recent research findings and behavioral intervention strategies. {Also offered for undergraduate credit - see PSYC 473.}.

**PSYC 680. History & Systems. 3 Credits.**

Historical development of scientific psychology. Emphasis on the development of various systems of psychology in America. Capstone experience. {Also offered for undergraduate credit - see PSYC 480.}.

**PSYC 681. Health Psychology. 3 Credits.**

Application of behavioral procedures to the prevention, treatment, and rehabilitation of medical disorders. Emphasis on contemporary research findings. {Also offered for undergraduate credit - see PSYC 481.}.

**PSYC 686. Neuropsychology. 3 Credits.**

Introduction to human neuropsychology with emphasis on the neural basis of motor, perceptual, cognitive, emotive, and language behavior. Topics include normal and pathological conditions from clinical and experimental perspectives. {Also offered for undergraduate credit - see PSYC 486.}.

**PSYC 690. Graduate Seminar. 1-3 Credits.****PSYC 695. Field Experience. 1-15 Credits.****PSYC 696. Special Topics. 1-5 Credits.****PSYC 718. Visual Neuroscience. 3 Credits.**

A detailed survey of current ideas, methods, and perspectives in visual neuroscience.

**PSYC 720. Advanced Topics in Cognitive Neuroscience. 3 Credits.**

Examines prominent theories, research approaches, and experimental findings in the field of cognitive neuroscience. Included topics are methodological issues and cognitive neuroscience approaches to research questions in a broad range of areas within cognitive psychology.

**PSYC 727. Advanced Topics in Visual Perception. 3 Credits.**

Integrated overview of the field of vision research. Addresses recent developments in the study of the phenomenology, psychophysics, and neural substrates of human visual sensation and perception.

**PSYC 731. Fundamental Processes in Cognition. 3 Credits.**

Explores the underlying architecture of the human cognitive system; how it takes in, processes, stores, and retrieves information.

**PSYC 732. Applied Cognitive Process. 3 Credits.**

Explores the ways cognitive principles operate in ecologically valid (real-world) situations.

**PSYC 733. Social Judgment. 3 Credits.**

Explores issues and topics related to judgment and decision-making in social contexts as well as the influence of social factors on judgment processes.

**PSYC 735. Neural Networks. 3 Credits.**

See Computer Science for description.

**PSYC 750. Introduction to Clinical Issues and Practices. 1 Credit.**

Instruction and practice in clinical interview techniques and discussion of clinical issues including ethics, laws, and crisis intervention.

**PSYC 755. Empirically Supported Interventions I. 4 Credits.**

Introduction to assessment and intervention with a focus on principles of clinical psychological science, case conceptualization, and foundational therapeutic skills.

**PSYC 756. Empirically Supported Interventions II. 4 Credits.**

In depth review of contemporary psychological interventions and skill development for evidence based practice. Prereq: PSYC 755.

**PSYC 758. Diversity in Clinical Psychology. 3 Credits.**

This course emphasizes issues of cultural and individual diversity within the context of scientific research. In addition, the course will train students in culturally competent techniques for the assessment, diagnosis, and treatment of mental disorders in clinical practice.

**PSYC 760. Research Methods in Visual and Cognitive Neuroscience. 3 Credits.**

This course provides both theoretical and practical training in methodological skills essential for the conduct of high-quality research in the field of visual and cognitive neuroscience. May be repeated for credit with a change in topic.

**PSYC 761. Applied Research Methods. 3 Credits.**

Experimental methodology and design skills useful in clinical research including N=1 designs, experimental, and quasi-experimental designs. Laboratory includes reports on recent research articles, presentations on specific content areas, and development of a detailed research proposal.

**PSYC 762. Advanced Research Methods and Analysis. 3 Credits.**

Advanced experimental design and data analysis. Emphasis on regression models as applied to psychological data and designs. Includes analysis on the computer. Lecture, laboratory. Prereq: PSYC 640.

**PSYC 763. Grant Writing for Psychological Scientists. 3 Credits.**

This course familiarizes graduate students with methods for finding and securing grants in the psychological sciences. Readings, in-class discussions, and writing/reviewing workshops will help students prepare to make their own grant submissions.

**PSYC 764. Advanced Topics in Attention. 3 Credits.**

Examines prominent theories of attention and empirical evidence in support of those theories. Included topics focus on the role of attention in thought, perception, and action.

**PSYC 770. Testing and Assessment. 3 Credits.**

Introduction to scale construction and test theory. Administration, interpretation, and reporting of intelligence and objective personality testing.

**PSYC 771. Social/Health Psychology Research. 3 Credits.**

Covers research designs frequently utilized in conducting social psychology related research with particular emphasis on health psychology.

**PSYC 782. Emotions. 3 Credits.**

Focused on basic questions about defining emotions, differences in experiencing or expressing emotions, and relatedness to cognition. Includes emotions and psychotherapy, emotions in a social context, and the impact of emotional expressions versus repression on health.

**PSYC 787. Advanced Social Psychology and Health. 3 Credits.**

Covers theory and research from social psychology that has implications for health behavior. Emphasizes theories of attitudes and behavior applied to such topics as regimen adherence, self-protective health behavior, and disease prevention. Prereq: PSYC 670, 681.

**PSYC 790. Graduate Seminar. 1-3 Credits.**

**PSYC 791. Temporary/Trial Topics. 1-5 Credits.**

**PSYC 793. Individual Study/Tutorial. 1-5 Credits.**

**PSYC 794. Practicum/Internship. 1-8 Credits.**

**PSYC 795. Field Experience. 1-15 Credits.**

**PSYC 796. Special Topics. 1-5 Credits.**

**PSYC 797. Master's Paper. 1-3 Credits.**

**PSYC 798. Master's Thesis. 1-10 Credits.**

**PSYC 892. Graduate Teaching Experience. 1-6 Credits.**

**PSYC 894. Practicum/Internship. 1-8 Credits.**

**PSYC 897. Cooperative Education. 1-4 Credits.**

**PSYC 899. Doctoral Dissertation. 1-15 Credits.**