PSYCHOLOGY

Our graduate degrees are a highly selective, research-intensive program, offering an M.S. in applied psychological methods or clinical research methods and three doctoral areas of specialization: clinical, applied developmental, and psychometrics and quantitative psychology. Each of these programs is registered with the State of New York and is highly integrated, with our esteemed faculty serving in all programs.

For more information about Graduate-level Psychology, please visit our page on the Fordham website.

Admissions

We have a highly competitive and selective admissions process to all three programs. Requirements for admission are a B.A. or B.S. from accredited university (or international equivalent) and GRE scores taken within the past 5 years. We highly value research experience, and we expect an undergraduate GPA of 3.5 (B+) or better for Ph.D. applicants and a 3.3 for Masters applicants, as well as upper-percentile GRE scores. In addition to research experience, most successful candidates also demonstrate some experience in the mental health/human services area(s), either on a paid or voluntary basis.

We solely admit full-time students working toward a Ph.D. degree. We award the M.A. degree as the first step in doctoral training in the three areas of specialization. Prospective students are expected to demonstrate substantial grounding in general psychology, as well as in their specialization.

Requirements

• Resume: Up to two pages in length
• Official Transcripts: confirming prior degree conferral. Should be ordered at least one month prior to the application deadline. You may upload unofficial copies of your transcripts to your application while the Office of Admissions awaits receipt of your official transcripts.
• Official GRE Scores (Code #2259)
• Official GRE Subject Score: NOT required but strongly recommended, particularly for students who do not have a B.A. in psychology for the clinical and applied developmental programs.
• Statement of Intent: up to 500 words
• Writing Sample: 5 - 20 pages in length
• Three letters of Recommendation
• English Proficiency: International applicants whose native language is not English are required to complete and submit to GSAS prior to matriculation. Official TOEFL or IELTS scores should be sent directly to the testing service. A waiver can be requested based on your educational history at a U.S.-based institution and if the official language of your country of origin/nationality is English.

Clinical Psychology Placement

Students are admitted to the clinical program within the psychology department rather than to a faculty member's lab. However, students interested in working with a particular faculty member are strongly encouraged to indicate this interest in their admission materials, as the vast majority of students enter the program with a clearly identified mentor.

The clinical program also admits students who do not declare which faculty member would be their academic and/or research adviser as part of the admissions process. These students are free to select the faculty members most able to direct the research interest they cultivate during their first year. Students are welcome to work with another faculty member on their doctoral dissertation should their research interests change during their time in the program.

For more information about admissions to the Graduate School of Arts and Sciences, please visit their page on the Fordham website.

Programs

• Ph.D. in Clinical Psychology
• Ph.D. in Applied Developmental Psychology
• Ph.D. in Psychometrics and Quantitative Psychology
• M.S. in Clinical Research Methods
• M.S. in Applied Psychological Methods
• Program Evaluation Concentration
• Tests and Measures Concentration

Courses

PSYC 5060. SPIRITUALITY, HEALTH & ADJUST. (3 or 4 Credits)
Integrates psychology of health and psychology of religion. Introduces students to constructs, models, and research, emphasizing the relevance of spirituality to the adjustment process.

PSYC 5070. SPIRITUALITY & PSYCHOTHERAPY THEOR. (3 to 4 Credits)
This course will explore the application of a spiritual orientation across a broad range of empirically supported psychotherapies, especially in the treatment of minority populations.

PSYC 5100. PSYCOMETRICS-THEORY. (3 Credits)
This course mainly covers what is commonly referred to as the classical test theory (CTT). It intends to provide you with the conceptual and technical skills necessary to develop and evaluate psychological tests and measures, and to provide foundations for further study of measurement theory, including but not limited to factor analysis and item response theory. A list of topics covered in this course include introduction to CTT, reliability, and validity of a test, and item analysis. The lab will assist software implementations (including Excel, SPSS, AMOS, and possibly R) and provide students hands-on experiences on how to plan psychometric analysis for a newly developed scale.

PSYC 5335. SOCIAL DEVELOPMENT. (3 Credits)

PSYC 5500. DIFFERENTIAL PSYCHOLOGY. (3 to 4 Credits)

PSYC 5600. SUCCESSFUL AGING. (3 or 4 Credits)
Introduces concepts of successful aging and explores mechanisms contributing to aging well. Compares early and more recent theories of successful aging, summarizes the empirical research, and examines current intervention approaches with the goal of developing a new intervention.

Attributes: CEE, CENS.

PSYC 5710. ISSUES IN SOCIAL PSY. (3 to 4 Credits)
The person in society: interdisciplinary approaches; personality and culture: subculture, class, and community. Development and the self-cognitive and motivational elements in the acquisition of language, attitudes, and values. Group membership, role behavior, and group dynamics.

Attribute: PMPE.
PSYC 5715. PSYC OF COMPLEX EMERGENCIES. (0 to 4 Credits)
This course covers psychological aspects of complex emergencies and responder preparedness. Topics include team building, negotiation, and motivation of responders and aid-workers, preparing for emergencies, coping with violence for aid-workers, refugees, IDPs, and children in crisis, gender issues, and general psycho-social health of beneficiaries and aid-workers. (Course is only open to IDHA)

PSYC 6005. ETHICS IN PSYCHOLOGY. (3 to 4 Credits)
This course provides general and specific guidance for ethical conduct in the science and practice of psychology. Using case examples and readings the course covers the clinical practice of psychology, research, teaching, supervision of trainees, development of assessment instruments, conducting assessments, school psychology, educational counseling, organizational consulting, forensic activities, social intervention, administration, and other activities. Also explored is the history and current role of the federal government, state licensure boards, and the American Psychological Association and other organizations in establishing guidelines and professional codes of ethics for research, teaching, and practice in psychology. The course helps students apply these codes and regulations to traditional areas of psychology and to emerging areas such as telecommunications and managed care.
Attributes: CEED, CENS.

PSYC 6010. RESEARCH ETHICS AND SOC JUSTIC. (3 Credits)
This course will examine approaches to responsible research practices in socio-behavioral research, with particular attention to research involving human participants. The course will provide foundations in research ethics and methods in research ethics decision-making that exemplify scientifically valid and ethically sound research method planning, implementation, and dissemination.
Attributes: CEEED, CENS.

PSYC 6020. HEALTH PSYCHOLOGY. (3 Credits)
An introduction to the study of psychological factors in health and illness, which examines the major models, research methods, interventions, and issues in health psychology/behavioral medicine. Topics include stress-illness, compliance, psychoimmunology, social support, and coping in disorders such as cardiovascular disease, pain, cancer, gastrointestinal disorders, diabetes, and obesity.
Attributes: CEEED, CENS, CLRM, CPCE.

PSYC 6030. TRAUMA & FAMILY VIOLENCE. (3 Credits)
This course will focus on understanding the cause and effects of trauma and family violence, such as child abuse and neglect, rape, and domestic violence. Diagnostic assessment, prevention and treatment issues will be emphasized.
Attributes: CLRM, CPCE, HUHR.

PSYC 6040. CONTEXT & CONSEQUENCES-POVERTY. (3 Credits)
A comprehensive overview of research and policy literature on contexts and consequences of poverty (income, socio-economic status, poverty cofactors and risks) for children, youth and families in US. Topics include defining and measuring poverty; the distribution of poverty across social and demographic characteristics; the role of labor markets, family structure and human social capital in reproducing poverty; quantitative and qualitative studies on the impact of poverty on children, youth and families; debates about poverty's impact and the history.

PSYC 6050. BEHAVIORAL MEDICINE. (3 Credits)
Teaches students the clinical and research skills required in a medical setting. The overarching goal is for students to gain competency working with patients presenting with a range of medical conditions (as primary or secondary diagnosis).
Attributes: CLRM, CPCE, CPIE.
PSYC 6142. DEVELOPMENTAL ASSESSMENT. (2 Credits)

PSYC 6146. THEORIES OF DVLPMTL ASSMNTLAB. (1 Credit)
Provides experience in using developmental assessment measures and report writing in the field of developmental psychology.

PSYC 6148. THEORIES & ASSESSMNT OF DVLPMTN. (3 Credits)
The course examines three issues: how theories can be used to construct developmentally appropriate measures, how the development and use of assessment measures can be used to create or move theory forward, and the role of psychologists in creating measures. Both individual and group assessment measures will be considered. Students will gain experience administering and reporting results of classic developmental assessments.

PSYC 6170. MULTICULTURAL SEMINAR. (3 or 4 Credits)
Focus on multicultural perspective for understanding and working with diverse populations. Will examine issues of gender, race/ethnicity, sexual orientation, religion, etc. in the provision of psychological services.
Attributes: CLRB.

PSYC 6175. Multicultural Issues in Education. (3 Credits)
The purpose of this course is to explore the ways in which race, culture, and socioeconomic resources interact to influence the educational opportunities and outcomes of children and adolescents. We will discuss structural, cultural, and psychological arguments that have been used to help explain between-group variations in academic achievement. Additionally we will discuss factors that serve as assets and resources for minority youth in the educational domain and help explain within-group variation in educational outcomes. Interventions and policies designed to improve educational opportunities and outcomes, particularly for minority youth, will also be examined.

PSYC 6184. BEHAVIORAL ASSESSMENT WITH LAB. (3 Credits)
This course will establish an understanding of behavioral assessment and its implications for intervention, evaluation and research. Theoretical foundations, methods, and application of behavioral assessment to case formulation and treatment will be emphasized.
Attributes: CLRB, CPAE, CPCE.

PSYC 6190. FORENSIC ASSESSMENT. (3 Credits)
PSYC 6205. CLINICAL GEROPSYCHOLOGY. (3 Credits)
PSYC 6210. PSYCHO THERAPY THEORIES. (3 to 4 Credits)
Comprehensive overview of most of the major contemporary approaches to psychotherapy, with special emphasis on underlying assumptions, techniques employed, and goals.

PSYC 6225. PERSONALITY THEO & RESEARCH. (3 Credits)
PSYC 6245. COGNITIVE BEHAVIOR THERAPY. (3 Credits)
PSYC 6251. FOUNDATIONS OF NEUROPSYCHOLOGY. (3 Credits)
This course will provide a broad understanding of human brain-behavior relationships, neuropsychological theory, and the application of this knowledge to the clinical evaluation and treatment of individuals with brain disease or damage. The course will begin with an overview of clinical neuropsychology and its history, functional neuroanatomy, evidence based neuropsychological practice, and the foundations for resea and theory of clinical neuropsychology (including the connection between neuropsychological evaluation and the practical implications of neuropsychological conditions), diagnosis of neurocognitive disorders, and neuropsychological intervention techniques. Finally, this course reviews non-neurologic considerations in CNS functioning and neuropsychological evaluation, including multicultural, ethical and forensic issues in clinical neuropsychology.
Attributes: CLRB, CPAE, CPCE.

PSYC 6253. NEUROPSYCHOLOGICAL ASSESSMENT WITH LAB. (3 Credits)
This course will review the practice of neuropsychological assessment and basic concepts related to classes of cognitive functions. We will discuss psychometric principals germane to neuropsychological assessment as well as the use of neuropsychological assessment for clinical practice. Laboratory activities will support the acquisition of knowledge related to the practice of neuropsychological practice, including test selection, administration, scoring, date interpretation, and report writing.
Attributes: CPAE.

PSYC 6257. CHILD NEUROPSYCHOLOGY. (3 Credits)
The relationship between development of brain structure and cognitive functions are discussed. Tests used to assess a variety of functions including memory, attention, achievement, visual spatial skills, executive function, and motor function are presented. Learning disabilities, attention deficits, pediatric neurological disorders, and other relevant topics are covered.
Attributes: CPAE, CPCE.

PSYC 6259. TOPICS IN DEVELOPMENTAL COGNITIVE NEUROSCIENCE. (3 Credits)
This seminar covers topics in developmental cognitive neuroscience across the lifespan. Topics include neural correlates of cognitive development (memory, face perception, executive functioning), structural and functional brain changes associated with aging, and normal and pathological (e.g. Alzheimer's disease) cognitive changes associated with aging.

PSYC 6270. FAMILY SYS: THEORY/PRAC. (3 Credits)
Combination of readings, film, videotapes, and class discussions to provide the student with an overview of the theories and techniques of the major therapists in the field.
Attributes: CLRB, CPAE.

PSYC 6275. FAMILY PSYCHOLOGY. (3 Credits)
Provide basic knowledge of family systems theory as a prerequisite for understanding family psychology and family therapeutic intervention. Provides a survey of research models and findings relevant to family processes and therapeutic practice.
Attribute: CLRB.
PSYC 6280. BRIEF PSYCHOTHERAPY. (3 Credits)
This course will provide an overview of the major approaches to brief psychotherapy. Various theoretical perspectives are included: psychodynamic, cognitive, behavioral, and interpersonal.
Attributes: CPCE, CPE.

PSYC 6290. HEALTH DISPARITIES AND SOCIAL INEQUITY. (3 Credits)
This course focuses on the psychosocial correlates and consequences of health disparities involving individuals and groups that have been historically marginalized by society and in some cases by the health sciences and professions. Readings and class discussions will examine the relationship of contextual factors such as poverty, racial/ethnic discrimination, environmental hazards, incarceration, institutionalization and public policy to social and health inequities faced by children and adults with HIV/AIDS, mental illness, intellectual disabilities, and substance abuse disorders. The role of psychology in the emerging health and human rights paradigm in the United States and globally will also be explored.
Attributes: CEED, CENS, CLRM, PMPE.

PSYC 6298. PSYCHOANALYTIC THEORY. (3 Credits)
Theory, research methods, and therapy of the psychoanalytic movement will be explored, including the work of Freud and ego psychological, neofreudian, Jungian, interpersonal, object relational, self, archetypal, and existential orientations. Attention will focus on clinically relevant topics such as human development, personality, dreams, and psychopathology, using case material for illustrations.
Attributes: CLRM, CPCE, CPE.

PSYC 6300. DEV PSY: FOUNDATIONS. (3 Credits)
This course will cover the historical and theoretical foundations of developmental psychology and the emergence of the discipline of Applied Developmental Psychology. Major historical and contemporary theories of development and key topics and research will be considered across domains, with emphasis on core readings, developmentalists, and turning points in the field.
Attributes: CLMB, PMPE.

PSYC 6310. CULTURE, ETHNICITY, RACE. (3 Credits)
"Culture, Ethnicity, Race and Development" reviews how these concepts have been defined in psychological research. We then examine how these social influences affect youth development by focusing on topics in four areas: theories of ethnicity and race in human development, family, social dynamics and cultures.
Attributes: CEED, CENS.

PSYC 6320. ADOLESCENTS/YOUNG ADULTS. (3 Credits)

PSYC 6330. COGNITIVE DEVELOPMENT. (3 Credits)
Theories and research in structuralism, neo-structuralism, information processing, connectionism and contextualism are investigated.
Attributes: CLMB, PMPE.

PSYC 6340. PERSONALITY DEVELOPMENT. (3 Credits)
The course will provide a history of the life-span approach and examine current issues regarding the nature, directionality, and origins of personality stability and change within a life-span framework. Emphasis will be given to the interdependence of biological and environmental factors influencing personality development. Implications of these issues will be considered with regard to specific content areas and empirical findings.
Attribute: PMPE.

PSYC 6350. APPLIED DEV PSYCHOLOGY. (3 Credits)
This course will provide an introduction to the roles and activities of professionals in applied developmental psychology. Topics will include definitions of the field, ethical issues, public policy, research design, and program evaluation.
Attributes: CEED, CENS.

PSYC 6360. SOCIAL POLICY AND APPLIED PSYCHOLOGY. (3 Credits)
This course will cover the implications of social policy for applied psychology. Examples include the impact of funding patterns on opportunities for research and the application of psychological interventions, and the implications of health legislation for psychologists' research priorities. The course will also emphasize the social policy implications of psychological knowledge. For example, how data on well-being of the elderly should impact regulation of nursing homes.
Attribute: PMPE.

PSYC 6365. CHILD, FAMILY AND SOCIAL POLIC. (3 Credits)
This course will address the intersection of developmental science and child and family social policy. We will examine and discuss debates about problem definition and the role of public policy, social indicators, stakeholders, research and evaluation, ethics, and advocacy in regards to a variety of topics related to child health and development, education, families, poverty and more.

PSYC 6370. COGNITION AND AFFECT. (3 Credits)
A development and comparative examination of significant cognitive theories and research Structuralist, contextualist, information processing, and connectionist perspectives as well as research from infant to elderly cognition are covered.
Attribute: CLMB.

PSYC 6380. ANXIETY DISORDER SEMINAR. (3 Credits)
The course addresses the etiology of various anxiety disorders-related anxiety disorders and treatment options. This course is an in-depth coverage of the major anxiety disorders, beginning with etiological and maintaining factors, as well as information processing and behavioral features, and ending with psychosocial treatment and case management. Special attention is given to specific cases as an illustrative of each condition, and complicating factors involved in case management.
Attributes: CLRM, CPCE, CPE.

PSYC 6385. DEPRESSION AND SUICIDE. (3 Credits)
This course seeks to provide you with an overview of the etiology, diagnosis, and treatment of depression and suicidality. We will examine various models of vulnerability to depression, including psychodynamic, behavioral, cognitive, and interpersonal models. Research findings in these areas will also be examined. Furthermore, this course will provide you with an overview of the epidemiology, assessment, and treatment of suicidal thinking and behavior.

PSYC 6390. GLOBAL MENTAL HEALTH. (3 Credits)
This course provides a survey of models, mechanisms, and critiques surrounding Global Mental Health. Materials are drawn from the burgeoning global mental health literature (e.g., Vikram Patel, Jorgen Unutzer, Helena Verdell) transcultural psychiatry (Author Kleinman, Laurene Kirmayer), post-conflict psychosocial mental health field (Ager, de Jong), and mental health capacity building. A section on methods in the middle of the course provides opportunities for students to review research design. Requirements will include weekly reflection papers, a term paper, and an exam. Outside speakers may be invited for selected lectures.
Attributes: CLRM, CPCE, CPE, HUCB.
PSYC 6510. SOCIAL INFLUENCES ON BEH. (3 Credits)

PSYC 6530. DEV PSYCHOPATHOLOGY. (3 Credits)
This course will consider developmental disabilities and psychopathologies and the contexts, both natural and designed, that exacerbate or ameliorate these conditions. The ideas of disability, pathology, and dysfunction, and the contrasting ideas of ability, health, and functionality will be considered in relation to each other.
Attribute: CLRM.

PSYC 6630. BEHAVIORAL PHARMACOLOGY. (3 Credits)

PSYC 6654. INTRODUCTION TO NEUROSCIENCE. (3 Credits)
An exploration of the neuro-anatomical, physiological, and chemical substrates of human behaviors, including movement, sensation, perception, cognition, emotion, and personality. Both typical and atypical behaviors will be considered, as well as developmental issues.
Attribute: CLMB.

PSYC 6670. PSYCHOPHARMACOLOGY I. (3 Credits)
This course covers the major psychiatric medication used in direct service delivery setting for mental health care. Special attention will be given to the role of psychotropic medication in the conduct of psychological services, including case management and treatment facilitating/interfering matters.
Attributes: CLRM, CPCE.

PSYC 6802. INTRO TO PSY STATISTICS W/ LAB. (3 Credits)
This course will replace PSYC 6800 and PSYC 6801. Most psychological research depends on statistical methods. This course aims to provide an introduction of a variety of statistical methods for psychological research.

PSYC 6830. PSY RESEARCH METHODOLOGY. (3 Credits)
The course will cover a variety of topics involving research methodology and design. Pitfalls and potential solutions to many experimental and quasi-experimental methodologies will be addressed. Students will complete their own research project during this course, including design, finding subjects, experimentation, analysis, and write-up.

PSYC 6850. EVALUATION OF PSYCHOLOGICAL & SOCIAL PROGRAMS. (3 Credits)
Review of the literature relating to the scientific evaluation of psychological programs in the areas of mental health, addiction, compensatory education, and societal innovation. Extensive discussion of the use of quasi-experimental designs, and numerous methodological issues and pragmatic problems associated with evaluation studies.
Attribute: CLRM.

PSYC 6890. APPLIC OF STAT SOFTWARE. (3 Credits)

PSYC 7010. PSYCHOLOGY AND CRIMINAL LAW. (3 Credits)
This course is designed to provide an overview of the interaction between psychology and the criminal law. We will focus primarily on the three major aspects in which psychologists are involved in the criminal justice system: competence to stand trial evaluations, mental state at the time of the offense (mens rea and the insanity defense), and the assessment of risk/prediction of future dangerousness. Because the interaction of psychology and law is by definition interdisciplinary, this course is co-taught by a forensic psychologist (Professor Rosenfeld) and attorney (Professor Cohen), and is open to both psychology graduate students law students. The content of the course is evenly divided between understanding the legal issues involved and the application of psychological principals to these legal issues. In additional, specific topics such as forensic psychological assessment and expert testimony will be discussed.
Attributes: CEED, CENS, CLRM, CPCE.

PSYC 7020. PSYCHOLOGY AND CIVIL LAW. (3 Credits)
This course covers a number of the areas in which psychologists consult on forensic matters outside of the criminal arena. The semester will be divided relatively evenly between the reviewing case law and legal standards and issues related to clinical practice. Specific legal issues discussed include the concept of torts and malpractice, causation, best interest standards, and standards of proof. The first application of these issues pertains to civil law, including the role of psychologists in personal injury and sexual harassment cases, and disability law. The second area of focus concerns the role of psychologists in the family court, including a child custody and visitation evaluations, termination of parental rights, and divorce mediation. Finally, we discuss issues that arise in the elderly and medically ill such as informed consent, decision-making competence, physician-assisted suicide, and testamentary capacity. Overarching issues such as psychological testing, report preparation, and expert testimony are discussed in the context of these topics.
Attributes: CEED, CENS, CLRM, CPCE.

PSYC 7030. PSYCHOLOGY & JUVENILE JUSTICE. (3 Credits)
This course provides an overview of the interaction between psychology and the juvenile justice system focusing on four areas: 1) developmental theories and trajectories of antisocial behavior, 2) assessment and identification of risk and protective factors among justice system-involved youth, 3) clinical evaluations related to legal questions, and 4) empirically supported treatment/program.
Attribute: CLRM.

PSYC 7050. PHIL FOUNDATIONS OF PSYC. (3 Credits)

PSYC 7111. PSYCHOPATHOLOGY. (3 Credits)
An overview of the primary types, causes, and symptoms of a working knowledge of the basic tools used in clinical diagnosis, including diagnostic evaluation skills in the assessment of specific psychological disorders, as well as case formulation skills from different theoretical perspectives.

PSYC 7121. CLINICAL DIAGNOSIS. (3 Credits)
This course is designed to promote the development of a working knowledge of the basic tools used in clinical diagnosis, including diagnostic evaluation skills in the assessment of specific psychological disorders, as well as case formulation skills from different theoretical perspectives.

PSYC 7122. DEVELOPMENT & PREVENTION SCIENCE. (3 Credits)

PSYC 7250. TREATMENT OF SUB ABUSE. (3 Credits)
This course will cover theories and supporting research data concerning the development and maintenance of substance abuse disorders. It will concentrate heavily on specific techniques and regimens developed especially for the treatment of substance abuse disorders. Emphasis will be placed on psychosocial forms of treatment.
Attributes: CLRM, CPCE, CPIE.

PSYC 7422. PERCEPT DEV THEORIES. (3 Credits)

PSYC 7500. COMPUTERIZED MULTISTAGE TESTING. (3 Credits)
This course provides a general overview of adaptive and multistage test (MST)'s important concepts. The MST design is described, why it is needed, and how it differs from other test designs, such as linear test and CAT designs, and how it represents a middle ground between the linear and intern-level adaptive tests. It will illustrate and discuss the processes of test design, assembly, routing, scoring, applications, and operational implementation considerations, as well as the most recent development on software for simulations to aid the operational implementation.
PSYC 7804. REGRESSION WITH LAB. (3 Credits)
This course covers all types of regression analyses and related ideas. Hands on experience and development of expertise in conducting regression analyses. 
Attribute: CLMB.

PSYC 7806. MULTIDIMENSIONAL SCALING. (3 Credits)
A consideration of the theory and applications of the scaling of data, univariate and multivariate, metric and non-metric in psychology and related sciences. Emphasis is on the various theoretical models for scaling data multi-dimensionally and their computer program analogues.

PSYC 7810. STATISTICAL COMPUTING WITH R. (3 Credits)
This course teaches the fundamentals of data analysis using the R computing environment. The course will cover data manipulation and visualization and standard statistical analyses such as t-tests, ANOVA, regression and X 2-tests. No prior programming experience is required.

PSYC 7811. MISSING DATA ANALYSIS. (3 Credits)
Missing data is common in behavioral research. This course covers the concepts of missing data (e.g., mechanisms of missing data, categorizations of missing data), research designs in minimizing missing data, planned missing data designs, and statistical methods in handling missing data with different types of data (cross-sectional, longitudinal, categorical, multilevel). Software implementation of these techniques will be introduced and covered.
Prerequisite: PSYC 7804.

PSYC 7812. FACTOR ANALYSIS. (3 Credits)
Theories of trait organization and techniques of factor analysis. Critical evaluation of major research on the identification of aptitude and personality traits.
Attributes: CLRM, PMTM.

PSYC 7815. CLUSTER ANALYSIS. (3 Credits)
Cluster Analysis is a generic term for a range of methods that use criteria, and algorithms for discovering and defining groups of similar objects, subjects, concepts, stimuli, or other entities. Current methods and their comparative evaluation are presented in the context of behavioral science applications. The interrelationship of cluster analysis with factor analysis, multidimensional scaling and discriminant analysis is discussed. Students are expected to use the computer to analyze behavioral science data in the course.

PSYC 7816. INTRODUCTION TO MULTIVARIATE ANALYSIS. (3 Credits)
This course covers elements of matrix theory, multivariate regression, exploratory factor analysis, principal component analysis, discriminant analysis, the generalized T-distribution, multivariate analysis of variance, and canonical regression. It also includes a treatment of pattern, profile analysis, and a brief introduction of correspondence analysis.
Attribute: CLMB.

PSYC 7820. NONPARAMETRIC STATS. (3 Credits)

PSYC 7821. Advanced Multivariate Analysis for Psychology. (3 Credits)
This course will cover the major multivariate statistical techniques used in social and behavioral sciences. The topics covered are similar to those in introduction to Multivariate Analysis; the multivariate normal distribution, the multivariate general linear model (MANOVA, Multivariate Multiple Regression, MANCOVA), discrimination and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures such as principal components and factor analysis. The coverage on this class goes beyond application of these techniques by focusing on their statistical and theoretical foundations, and by emphasizing matrix algebra computations.

PSYC 7825. TOPICS IN QUANT METHODS. (3 Credits)
Topics in quantitative research methods are selected by the instructor.

PSYC 7826. TOPICS IN QUANT METHOD II. (3 Credits)

PSYC 7827. MODELS OF DECISION AND CHOICE. (3 Credits)
This course will cover normative and descriptive models of individual choice and decision-making beginning with Expected Value and concluding with Cumulative Prospect Theory. The course will emphasize the interface and exchange between theory and experimentation. In particular we will focus on the ways in which theory has changed and adapted in response to empirical behavioral results.

PSYC 7830. STRUCTURAL EQUATION MODELING. (3 Credits)
The course and lab familiarizes students with methodology topics include: determination of model parameters, fitting models to data, etc., LISREL, EQS, AMOS, MPLUS and SEPATH.
Attribute: PMTM.

PSYC 7832. META-ANALYSIS. (3 Credits)
This course will introduce participants to the methodology of systematic reviews of scientific literatures and meta-analysis—a set of techniques designed to synthesize research findings across studies as the basic units of data analysis. The course will cover all major synthesis (meta-analysis) with special attention to the unique features of such analyses. Participants will read and critique published meta-analyses and will gain experience with some meta-analysis software.
Attribute: CLRM.

PSYC 7835. CATEGORICAL DATA ANALYSIS. (3 Credits)

PSYC 7840. ADVANCED STRUCTURAL EQUA. (3 Credits)
This course covers advanced aspects of structural equation modeling, such as: power and sample size determination; longitudinal data analysis and growth curve modeling; and use of structural equation models to examine variable interactions.

PSYC 7850. HIERARCHICAL LINEAR MODELS. (3 Credits)
This course introduces linear models (regression, ANOVA and ANCOVA) for populations having a hierarchical structure. An example of such a structure would be students grouped in universities. Here there is assumed to be a population of universities and, for each university, a population of students. Suppose there is some outcome variable of interest (perhaps GPA in this example). Predictors for this variable might be available at the student level (admission test scores) as well as the university level (selectivity). Hierarchical linear models provide an appropriate framework for exploring data obtained from such a structure (involving a sample of universities and a sample of students from each of the sampled universities). Bayesian, non-Bayesian, and Empirical Bayesian approaches will be discussed and compared.
Attributes: CLRM, PMTM.

PSYC 7860. Introduction to Diagnostic Models. (3 Credits)
This course will provide an overview of cognitive diagnostic models, diagnostic classification models, or similar, as well as estimation, and model equivalency issues. The format of the course will be a seminar where participants earn credit by taking on responsibility to write up and present a topic during one of the classes.
PSYC 7880. STATISTICAL MEDIATION ANALYSIS. (3 Credits)
This course will provide a comprehensive introduction to statistical mediation analysis including estimation of effects, consideration of assumptions, and limitations of method. Course topics will cover computer intensive applications of mediation, including multivariate models with multivariate models with multiple indicators and mediators, as well as longitudinal and hierarchical models. The goal of this course is to prepare students for applying mediation to their own program of research.

PSYC 7890. QUALITATIVE METHODS. (3 Credits)
This course examines strategies available for the analysis of data not appropriately addressed by typical statistical methodologies. This course provides knowledge of qualitative research methods and skills necessary to carry out this kind of research in psychology. Principles, procedures, ethics, and illustrative studies in phenomenology, grounded theory, narrative psychology, hermeneutics, heuristic research, psychoanalysis, action research, programs of evaluation, and feminism will be explored. Hands-on activities include the formulation of research problems, design, data collection, analysis, validation, and report writing. 

Attribute: CLMB.

PSYC 7900. STATS FOR TEST CONSTRUCT. (3 Credits)
Requirement for students applying for: Teaching Fellow, Senior Teaching Fellow, and Teaching Associates.

PSYC 7920. ITEM RESPONSE THEORY. (3 Credits)
This course focuses on item response theory psychometric models, including two- and three-parameter models. Theory and application are discussed and studied, using the various models.

Attribute: CLRM.

PSYC 7921. ITEM RESPONSE THEORY LAB. (1 Credit)
Provides experience in modeling data and using IRT programs.

PSYC 7930. MATRIX ALGEBRA. (3 Credits)

PSYC 7940. BAYESIAN STATISTICS. (3 Credits)

PSYC 7950. CORRESPONDENCE ANALYSIS. (3 Credits)

PSYC 7960. EQUATING TEST SCORES. (3 Credits)
Test equating methods are used to produce scores that are comparable across different test forms. The course will provide a detailed overview of the observed-score equating (OSE) methods and framework, and of the IRT OSE method; the assumption that underlie different methodologies and the relevant data collection designs will also be discussed. In this course, theoretical issues will be considered along with numerical examples and software demonstrations using real data.

PSYC 7965. EXPERIMENTAL DESIGN. (3 Credits)
This class exposes students to the basic principles of experimental design and the appropriate tools for analysis of results from experimental studies. We will cover single- and multi-factor designs, blocking and repeated measures designs, analysis of covariance and the special statistical issues associated with multiple comparisons and non-orthogonal designs.

Attributes: ASDM, PMTM.

PSYC 7990. THE TEACHING OF PSYCHOLOGY. (3 Credits)
Theory and practice of college teaching will be reviewed. Topics will include lecturing, demonstrations, assessment methods, out of class writing assignments, syllabus preparation, local requirements and values.

PSYC 8000. SEM ON TEACHING OF PSYCH. (0 Credits)

PSYC 8001. INTERNSHIP IN APPLIED PSYCHOLOGICAL METHODS. (3 Credits)
Students will identify a research project or program evaluation project in collaboration with their site supervisor and their internship mentor, and complete that project, drawing upon skills learned during the course of the Master's program. Students will have one semester to complete this project.

PSYC 8013. PSYCHOMETRIC TOPICS SEMINAR I. (0 Credits)

PSYC 8014. PSYCHOMETRIC TOPICS SEMINAR II. (3 Credits)

PSYC 8015. IDENT. OF CHILD ABUSE. (0 Credits)
The seminar will deal with the identification and reporting of child abuse. The sequelae of child abuse and maltreatment (medical, psychological, and legal) will be discussed. New York State laws and regulations dealing with reporting responsibilities will receive special emphasis.

PSYC 8023. CLINICAL TOPICS SEMINAR. (0 Credits)

PSYC 8025. RESEARCH COLLOQUIUM. (0 Credits)
Students will learn about research being conducted by faculty members, other graduate students, and invited speakers from other institutions.

PSYC 8030. INDIVIDUAL READING. (3 Credits)

PSYC 8040. INDEPENDENT RESEARCH. (3 Credits)
This course offers opportunities for students to work with individual faculty on individual projects of their own design.

PSYC 8043. ADP RESEARCH APPRENTICESHIP I. (3 Credits)
A research apprenticeship for all students in the Applied Developmental Program, taken within the first two years of study. Students, working under the direct supervision of a Developmental faculty member, will gain firsthand experience in design, implementation, and analysis of a research project pertaining to the development of infants, children, adolescents and older adults.

PSYC 8044. ADP Research Apprenticeship II. (3 Credits)
A continuation of PSGA 8043.

PSYC 8045. ADP Research Apprenticeship III. (3 Credits)
A continuation of research apprenticeship I and II for all students in the Applied Developmental Program taken within the first two years of study. Students working under the direct supervision of a developmental faculty member, will gain firsthand experience in design, implementation, and analysis of a research project pertaining to the development of infants, children, adolescents, mid-life, or older adults.

PSYC 8050. PRE-DOCTORAL THESIS. (3 Credits)
Under the direction of a faculty mentor, student conducts a short-term research project, analyzes results, and prepares a report in a journal article format.

PSYC 8060. RESEARCH SEMINAR I. (1 to 3 Credits)
Prior to beginning work on dissertation, each doctoral student prepares a written proposal of the research project and discusses it orally at a meeting of the seminar. Required of all doctoral students.

PSYC 8070. RESEARCH SEMINAR II. (3 Credits)
Each doctoral student is required to make a written and oral progress report on the dissertation research after completion of data gathering analysis.

PSYC 8080. CLINICAL PSYCHOLOGY INTERNSHIP. (1 Credit)
To be taken only after completion of all other degree requirements.
PSYC 8081. APPLIED DEV. INTERNSHIP. (1 Credit)
PSYC 8082. PSYCHOMETRIC INTERNSHIP. (1 Credit)
PSYC 8083. HALF-TIME DEV. INTERNSHIP. (0.5 Credits)
PSYC 8085. APPLIED DEV. INTERNSHIP. (0 Credits)
This course is the third semester requirement for ADP students who choose to take four half-time semesters of supervised internship experience.

PSYC 8202. CLINICAL EXTERNSHIP I. (3 Credits)
Supervised training in clinical psychology as affiliated practicum agencies.

PSYC 8203. CLINICAL EXTERNSHIP II. (3 Credits)
Continuation of PSGA 8202.

PSYC 8211. PSYCHOTHERAPY PRAC II. (3 Credits)

PSYC 8212. CLINICAL EXTERNSHIP III. (2 Credits)
Supervised experiences in psychotherapy, with discussion and reading assignments on personality dynamics, therapeutic techniques, and problems in psychotherapy.

PSYC 8213. CLINICAL EXTERNSHIP IV. (2 Credits)
Continuation of PSGA 8212.

PSYC 8221. CLINICAL EXTERNSHIP V. (1 Credit)

PSYC 8223. CLINICAL EXTERNSHIP VI. (1 Credit)

PSYC 8271. CHILD PSYCHOTHERAPY. (3 Credits)

PSYC 8290. CLINICAL SUPERVISION. (1 Credit)

PSYC 8350. APPLIED DEV PSY PRAC I. (3 Credits)
Supervised work in the application of developmental psychology to field settings. Students complete a project, such as a needs assessment or program design and evaluation practicum site. Prerequisites: PSGA 6350 and PSGA 6000.
Prerequisites: PSGA 6350 (may be taken concurrently) and PSGA 6000 (may be taken concurrently).

PSYC 8351. APPLIED DEV PSY PRAC II. (3 Credits)
Continuation of PSGA 8350.

PSYC 8550. ST SEM: DEVELOP ASSESS & LAB. (3 Credits)
This course examines developmental and multicultural issues in assessment use and construction. The lab provides experience in testing children and adolescents and report writing.

PSYC 8999. INDEPENDENT STUDY. (1 to 3 Credits)
Under the direction of a faculty mentor, student conducts a research project not directly related to either the second-year project (PSGA 8050) or the doctoral dissertation.

PSYC 9999. DISSERTATION DIRECTION. (1 Credit)