Psychology (PSYC)

Chairperson: Stephen Saunders, Ph.D.
Department of Psychology website (http://www.marquette.edu/psyc)

Degree Offered
Doctor of Philosophy, Master of Science

Program Description
The Department of Psychology offers courses and training leading to the doctor of philosophy (Ph.D.) in psychology, with specializations in either clinical psychology or behavior analysis. The department also offers courses and training leading to the master of science (M.S.) with a specialization in behavior analysis. Doctoral program students in the clinical psychology specialization acquire a master of science degree with a specialization in clinical psychology as they progress toward their doctoral degree.

The clinical psychology program is accredited by the American Psychological Association (APA). Courses cover scientific areas of psychology, research methods and professional practice skills including assessment, psychotherapy, consultation and supervision. Supervised clinical experiences are planned throughout the curriculum. Practica are available at the Department of Psychology’s Center for Psychological Services and with collaborating agencies in the Milwaukee area.

For both the master of science and doctoral programs in behavior analysis, course sequences cover basic, applied, and translational research, research methods, and professional and ethical issues. These sequences have been verified as meeting the requirements set forth by the Behavior Analysis Certification Board. Supervised practicum experience is offered both by the program faculty and through community providers.

Multicultural Awareness and Professional Integration Program (MAPIP)
The goal of this program is to assist doctoral psychology graduate students in gaining additional knowledge of multicultural issues. This includes increased awareness of the multicultural psychology research, increased understanding of diverse groups and cultures, and self-reflection of how diversity awareness can be integrated into their professional careers. For more information about this program please visit the MAPIP website (http://www.marquette.edu/psyc/about_diversity_mapip.shtml).

Prerequisites for Admission
The psychology program regards training in the breadth of psychology and its research foundations as the best preparation for graduate study in psychology. An undergraduate major in psychology is desirable but not required. Research experience is strongly recommended.

Application DeadlineS
Clinical Psychology Ph.D. program: All application requirements must be completed and received in the Graduate School by November 15.
Behavior Analysis M.S. program: Priority deadline is December 1. The master's program has rolling admissions, but first consideration for admission and fellowships are given to those with all materials in early.
Behavior Analysis Ph.D. program: All application requirements must be completed and received in the Graduate School by December 1.

Application Requirements
Applicants must submit, directly to the Graduate School:

1. A completed application form and fee online (http://marquette.edu/grad/future_apply.shtml).
2. Copies of all college/university transcripts except Marquette.
3. A personal statement of 1,000 words or fewer that includes discussion of academic and professional experiences and goals. The statement should comment on how the applicant's experiences and/or interests would contribute to fostering diversity in the clinical psychology program. An individual’s ability to enrich diversity to the program, in addition to his/her very presence, can involve, but is not limited to, personal identity (e.g., ethnic identity, religious identity, national origin), intellectual contributions (typically in the form of research interests), and/or personal history or experiences that allow the applicant to bring a unique perspective/worldview (e.g., history of overcoming significant disadvantage, first in family to go to college). The program invites applicants that are particularly interested in diversity-related issues, in either research and/or clinical practice, to request consideration for the Department of Psychology Diversity Graduate Assistantship and/or the Graduate School Diversity Fellowship. All applicants that believe they would contribute positively to the diversity of the program are invited to state in their application that they would like to be considered for the Diversity Graduate Assistantship/Fellowship.
4. Three letters of reference from individuals familiar with the applicant’s academic work and/or research experience.
5. Graduate Record Examination (GRE) test scores (General Test).
6. (For international applicants only) a TOEFL score or other acceptable proof of English proficiency.
The highest ranking applicants will be invited to an interview.

* Upon admission, final official transcripts from all previously attended colleges/universities, with certified English translations if original language is not English, must be submitted to the Graduate School within the first five weeks of the term of admission or a hold preventing registration for future terms will be placed on the student’s record.

**Psychology Master’s Requirements**

**Specializations:** Behavior Analysis, Clinical Psychology

A master’s student must complete a program of study defined, in conjunction with the director of graduate studies, on an approved Master's Program Planning Form.

The student is required to complete a satisfactory master’s thesis or professional project and must pass an oral defense. The defense is overseen by a committee of three department faculty and the defense constitutes the master’s comprehensive exam.

**SPECIALIZATION REQUIREMENTS**

**BEHAVIOR ANALYSIS**

The program requires a total of 30 credit hours beyond the baccalaureate degree including: 6 credit hours of master’s thesis or professional project work, completion of an approved master’s thesis or professional project, and 24 credit hours of course work.

Required courses:

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Applied Behavior Analysis</td>
<td>3</td>
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<tr>
<td>Concepts and Principles of Behavior</td>
<td>3</td>
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<tr>
<td>Single Subject Research Methods</td>
<td>3</td>
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<tr>
<td>Verbal Behavior</td>
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<tr>
<td>Functional Assessment and Treatment</td>
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<tr>
<td>Ethics and Professional Development</td>
<td>3</td>
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<tr>
<td>Behavioral Consultation and Supervision</td>
<td>3</td>
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<tr>
<td>Practicum in Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6999 Master’s Thesis</td>
<td>6</td>
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<tr>
<td>or PSYC 6998 Professional Project</td>
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</table>

Total Credit Hours 30

**CLINICAL PSYCHOLOGY**

The program requires a total of 36 credit hours of course work beyond the baccalaureate degree including: 6 credit hours of master’s thesis or professional project work, completion of an approved master’s thesis or professional project, and 30 credit hours of course work. Note: The only students eligible to earn this specialization are those students admitted to the psychology doctoral program's clinical psychology specialization. Doctoral students earn the master’s degree as part of the doctorate course of study.

Required courses:

Choose 30 credit hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 8401 Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 8420 Principles of Child Psychopathology and Intervention</td>
<td>3</td>
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<tr>
<td>PSYC 8525 Advanced Personality Psychology</td>
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<tr>
<td>PSYC 8630 Advanced Developmental Psychology</td>
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<tr>
<td>PSYC 8660 Advanced Social Psychology</td>
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<tr>
<td>PSYC 8740 Foundations and Processes of Human Cognition</td>
<td>3</td>
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<tr>
<td>PSYC 8780 Biological Bases of Behavior</td>
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<tr>
<td>PSYC 8301 Psychological Assessment 1</td>
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<tr>
<td>PSYC 8302 Psychological Assessment 2</td>
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<tr>
<td>PSYC 8321 Clinical Interviewing</td>
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<tr>
<td>PSYC 8322 Theories of Psychotherapy 1</td>
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<tr>
<td>PSYC 8332 Theories of Psychotherapy 2</td>
<td></td>
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<tr>
<td>PSYC 8965 Advanced Practicum in Clinical Psychology</td>
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</tbody>
</table>
PSYC 8360  Consultation and Supervision Strategies
PSYC 8201  Ethics and Professional Issues in Clinical Psychology
PSYC 8202  Multicultural Issues in Clinical Psychology
PSYC 8101  Advanced Statistics and Design 1
PSYC 8102  Advanced Statistics and Design 2
PSYC 8125  Advanced Research Methods

Required credit hours: 6

PSYC 6999  Master's Thesis
or PSYC 6998  Professional Project in Psychology

Total Credit Hours 36

Psychology Doctoral Requirements

Specializations: Behavior Analysis, Clinical Psychology

A doctoral student must complete a program of study defined, in conjunction with the director of graduate studies, on an approved Doctoral Program Planning Form. Students obtain a master’s degree while in the doctoral program.

The student is required to complete a satisfactory master’s thesis or professional project, and pass an oral defense. The defense is overseen by a committee of three department faculty and the defense constitutes the master’s comprehensive exam.

Students who successfully defend their master’s thesis or professional project and who have completed the required number of credits for their chosen specialization are awarded the master’s degree.

Students must successfully complete the DQE to be advanced to doctoral candidacy.

The doctoral student must complete an internship approved by the Psychology Department. Before the student is permitted to apply for internship, personal and professional readiness must be verified. Readiness is evaluated by both a review of the student’s graduate study portfolio and a clinical exam, which entails an oral examination of necessary clinical skills. Permission is granted only to students whose proposal has been approved.

A public defense of the dissertation is conducted only after the student has completed all other formal requirements for the doctoral degree, with the possible exception of the internship. To conduct research projects, permission from the university Institutional Review Board must be obtained.

Specialization Requirements

Behavior Analysis

The program requires a total of 63 credit hours of course work beyond the baccalaureate degree including: 6 credit hours of master’s thesis or professional project work, completion of an approved master’s thesis or professional project, successful completion of a doctoral qualifying examination (DQE), 12 credit hours of dissertation work, submission of an approved dissertation and a practicum.

Required courses:

Applied Behavior Analysis 3
Concepts and Principles of Behavior 3
Single Subject Research Methods 3
Verbal Behavior 3
Functional Assessment and Treatment 3
Ethics and Professional Development 3
Behavioral Consultation and Supervision 3
Practicum in Behavior Analysis 3
PSYC 6999  Master's Thesis 6
or PSYC 6998  Professional Project in Psychology

Translational Foundations 3
PSYC 8101  Advanced Statistics and Design 1 3
PSYC 8102  Advanced Statistics and Design 2 3
PSYC 8125  Advanced Research Methods 3
Advanced Concepts 3
Advanced Basic Research 3
Skill Acquisition and Emergence 3
Clinical Psychology

The program requires a total of 81 credit hours of course work beyond the baccalaureate degree including: semesterly enrollment in and attendance at a non-credit colloquium (PSYC 8952 Colloquium in Psychology), 6 credit hours of master’s thesis or professional project work, completion of an approved master’s thesis or professional project, successful completion of a doctoral qualifying examination (DQE), 12 credit hours of dissertation work, submission of an approved dissertation and an approved internship (PSYC 8986 Internship in Clinical Psychology).

Required courses:

21 credit hours in substantive core courses

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PSYC 8401</td>
<td>Abnormal Psychology</td>
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<td>PSYC 8420</td>
<td>Principles of Child Psychopathology and Intervention</td>
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<td>Advanced Social Psychology</td>
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<td>PSYC 8740</td>
<td>Foundations and Processes of Human Cognition</td>
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<td>PSYC 8780</td>
<td>Biological Bases of Behavior</td>
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6 credit hours in assessment

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<th>Course Code</th>
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<tr>
<td>PSYC 8301</td>
<td>Psychological Assessment 1</td>
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<tr>
<td>PSYC 8302</td>
<td>Psychological Assessment 2</td>
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9 credit hours in intervention

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<tr>
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<tbody>
<tr>
<td>PSYC 8321</td>
<td>Clinical Interviewing</td>
</tr>
<tr>
<td>PSYC 8322</td>
<td>Theories of Psychotherapy 1</td>
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<tr>
<td>PSYC 8332</td>
<td>Theories of Psychotherapy 2</td>
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6 credit hours in practice core courses

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<th>Course Code</th>
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<tr>
<td>PSYC 8965</td>
<td>Advanced Practicum in Clinical Psychology</td>
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3 credits of consultation/supervision

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<th>Course Code</th>
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<tr>
<td>PSYC 8360</td>
<td>Consultation and Supervision Strategies</td>
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6 credit hours in professional practice

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<tr>
<td>PSYC 8201</td>
<td>Ethics and Professional Issues in Clinical Psychology</td>
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<td>PSYC 8202</td>
<td>Multicultural Issues in Clinical Psychology</td>
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9 credit hours in research core courses

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<tr>
<td>PSYC 8101</td>
<td>Advanced Statistics and Design 1</td>
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<tr>
<td>PSYC 8102</td>
<td>Advanced Statistics and Design 2</td>
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<tr>
<td>PSYC 8125</td>
<td>Advanced Research Methods</td>
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6 credit hours of master’s thesis or professional project work

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<tr>
<td>PSYC 6999</td>
<td>Master’s Thesis</td>
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<td>or PSYC 6998</td>
<td>Professional Project in Psychology</td>
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12 credit hours of dissertation work

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<th>Course Code</th>
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<tr>
<td>PSYC 8999</td>
<td>Doctoral Dissertation</td>
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Graduate Elective

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Total Credit Hours

81

Courses

PSYC 5330. Human Factors Engineering. 3 cr. hrs.
Practical application of theories of human cognition, memory, sensation, perception and motor performance to person-machine interaction, equipment design and control of human error are reviewed. Includes design of controls and displays, automation, artificial intelligence, occupational stress, accident analysis and prevention, workspace and environmental factors that influence optimal performance.

PSYC 5350. The Psychology of Death and Dying. 3 cr. hrs.
PSYC 6135. Single Subject Research Methods. 3 cr. hrs.
Designed to provide a pragmatic and conceptual understanding of single subject experimental design and its role in both science and application. Covers broad issues related to the scientific study of behavior as well as specific issues related to direct measurement, single subject design and evaluation, visual and statistical analysis of data. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6800. Applied Behavior Analysis. 3 cr. hrs.
Designed to provide an introduction to and survey of topics in the application and research of behavior analysis. Topics to be covered include: (a) a review of basic learning principles, (b) ABA research methods, and (c) applications of ABA across a range of populations, settings and behaviors. Includes lab work in community agencies using operant methods, behavior modification, programmed instruction and AV systems. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6820. Concepts and Principles of Behavior. 3 cr. hrs.
Provides an introduction to learning and the philosophy and science of behavior analysis, including topics to focus upon basic principles of respondent (classical) and operant conditioning, as well as single subject research methods. Exposes students to experimental psychology research pertaining to the subject matter of human and animal learning. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6840. Verbal Behavior. 3 cr. hrs.
Provides an analysis of human language in objective terms. The goals are: (a) to distinguish language from non-language behavior by the way it achieves its effect on the environment, (b) to develop an understanding of elementary verbal relations with some emphasis on motivational variables, (c) to provide a conceptual understanding of a behavioral approach to language, (d) to discuss critiques of Skinner’s Verbal Behavior, (e) to develop skills to program curricula for teaching language to individuals with disabilities, and (f) to develop critical thinking skills and a repertoire for evaluating published research. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6860. Functional Assessment and Treatment. 3 cr. hrs.
Designed to provide an overview of the three functional assessment methods currently in use (indirect methods, descriptive assessment and functional analysis) and review the defining characteristics, major procedural variations, strengths and weaknesses of each approach. Examines current research involving modifications and extensions of current functional analysis methodology and function-based interventions. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6870. Ethical and Professional Conduct for Behavior Analysts. 3 cr. hrs.
Designed to examine ethical and professional issues pertaining to behavior analysts working in clinical, educational and academic settings in order to fulfill the Ethical and Professional Conduct requirements for the Behavior Analysis Certification Board (ABC) and the Accreditation Standards of the Association for Behavior Analysis International. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6880. Behavioral Consultation and Supervision. 3 cr. hrs.
Develop and refine competencies in behavioral consultation and supervision of others, and provide opportunities for students to practice consultation and supervision skills. Special consideration is given to designing interventions, implementing, managing and supervising applied projects. Topics include: the identification and selection of problems and target populations, analysis of problems and goals, designing measurement systems, developing interventions and disseminating products from applied behavioral research. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6956. Acceptance and Commitment Therapy Seminar. 0 cr. hrs.
Introduces the basic principles of Acceptance and Commitment Therapy (ACT). Includes lectures on the therapy modality, case discussions, and experiential learning. Prereq: Admitted to CLPS program.

PSYC 6968. Practicum in Behavior Analysis. 3 cr. hrs.
Designed to provide students with hands-on experience with behavior analytic assessment and intervention programing to individuals with intellectual and developmental disabilities (IDD). Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 6998. Professional Project in Psychology. 0 cr. hrs.
S/N grade assessment. Prereq: Cons. of dept. ch.

PSYC 6999. Master's Thesis. 1-6 cr. hrs.
S/U grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 8101. Advanced Statistics and Design 1. 3 cr. hrs.
Covers inferential statistics commonly used in psychological research. Topics include: probability and hypothesis testing; t-tests; one-way, two-way, and repeated measures analysis of variance; post-hoc and planned comparisons; correlation; bivariate regression; nonparametric statistics; power and effect size. Emphasizes identifying the appropriate statistical model for a research question, understanding the assumptions underlying the tests, and being able to compute and interpret the test statistics accurately. Use of statistical packages. Prereq: Admission to clinical program or cons. of dept. ch.

PSYC 8102. Advanced Statistics and Design 2. 3 cr. hrs.
Statistics covered include: multiple regression, logistic regression, multivariate analysis of variance and covariance, principal components analysis, and exploratory factor analysis. Covers psychometric concepts and procedures related to item selection, scale construction, reliability and validity. Emphasizes identifying the appropriate statistical model for a research question, understanding the assumptions underlying the tests, and being able to compute and interpret the test statistics accurately. Continued use of statistical packages. Prereq: PSYC 8101 and admission to clinical program or cons. of dept. ch.
PSYC 8115. Advanced Basic Research. 3 cr. hrs.
Designed to provide an advanced survey of theory-driven human and non-human animal research, including quantitative models of behavior, renewal, resurgence, and behavioral momentum, among others. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 8125. Advanced Research Methods. 3 cr. hrs.
Focuses on research design principles relevant to psychology and related disciplines. Emphasizes the development of skills in logic, critical analysis, and scientific writing. Covers basic principles of experimental and non-experimental design; principles of reliability and validity; strategies of data analysis and data collection methods. Students evaluate existing research and generate an original research proposal. Prereq: PSYC 8101 or equiv. and cons. of instr. or admission to clinical program.

PSYC 8201. Ethics and Professional Issues in Clinical Psychology. 3 cr. hrs.
A study of professional ethics drawing on APA guidelines, state statutes, research and case studies. Consideration of practice issues relevant to clinical psychology. Active participation in seminar presentations and formulation and resolution of ethical dilemmas. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8202. Multicultural Issues in Clinical Psychology. 3 cr. hrs.
Designed to provide training in the culturally informed practice of clinical psychology. Students learn to recognize and understand dimensions of cultural diversity in our communities, including, but not limited to: race, ethnic background and identity, sexual orientation, and religion. Trains students in developing culturally competent psychological interventions with individuals from diverse groups. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8301. Psychological Assessment 1. 3 cr. hrs.
Development of skills in the administration, scoring, interpretation, and integration of individual intelligence and achievement tests. Development of basic clinical assessment skills and understanding of the nature, development, etiology, and implications of individual differences in intelligence. Prereq: Admission to clinical program.

PSYC 8302. Psychological Assessment 2. 3 cr. hrs.
Extension of the assessment skills developed in PSYC 8301; the administration and interpretation of projective technique with emphasis on the Rorschach and TAT; special emphasis on the MMPI and report writing. Prereq: PSYC 8301 and admission to clinical program.

PSYC 8321. Clinical Interviewing. 3 cr. hrs.
Basic listening skills, interviewing to establish diagnoses and treatment goals and plans, and the development of the therapist-client relationship. Prereq: Admission to graduate program or cons. of instr.

PSYC 8322. Theories of Psychotherapy 1. 3 cr. hrs.
Focuses on interpersonal, client-centered, and psychodynamic models of psychotherapy. Covers conceptual foundations, intervention strategies, and empirical research on effectiveness. Prereq: PSYC 8321; admission to graduate program or cons. of instr.

PSYC 8332. Theories of Psychotherapy 2. 3 cr. hrs.
Focuses on the cognitive, behavioral, and cognitive-behavioral models of psychotherapy. Covers conceptual foundations, intervention strategies, and empirical research on effectiveness. Prereq: PSYC 8321; admission to graduate program or cons. of instr.

PSYC 8340. Theories of Psychotherapy 3. 3 cr. hrs.
Elective course covering complementary, alternative and cross-cultural approaches to psychotherapy. Prereq: PSYC 8321; admission to graduate program or cons. of instr.

PSYC 8341. Family Therapy. 3 cr. hrs.
Focuses on the evaluation and treatment of problems in couple and family functioning. Introduces family systems theory and evaluates different models for assessing and intervening with couples and families. Prereq: Cons. of dept.

PSYC 8352. Psychological Evaluation and Treatment of Trauma. 3 cr. hrs.
Trauma-induced mental illnesses are extremely common among both the general population and especially particular populations, such as members of the military. Mental health professionals, including clinical psychologists, must be prepared to conduct competent evaluations of trauma-based problems and to provide competent treatment. Provides reviews of the theory behind trauma-related problems and of research into the development and treatment of trauma. Primarily, seeks to enhance students’ skills in the practical application of evaluation and intervention techniques. Prepares students for future work at hospitals, VA systems and general mental health practice. Prereq: Previous graduate level coursework in assessment and psychotherapy interventions and admission to clinical program or cons. of instr.

PSYC 8360. Consultation and Supervision Strategies. 0-3 cr. hrs.
Students attend weekly seminar on supervision and consultation strategies and models. Students conduct supervision of other clinical students under supervision of instructor or other clinical faculty. Students attend both terms. Prereq: Cons. of dir. of clinical training.

PSYC 8401. Abnormal Psychology. 3 cr. hrs.
Scientific overview of psychopathology. Diagnostic criteria, etiology, and current treatments of important psychological disorders, including anxiety disorders, mood disorders, personality disorders, schizophrenia. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8420. Principles of Child Psychopathology and Intervention. 3 cr. hrs.
Introduces research on the development of psychopathology in childhood, including attention to biological, family, and sociocultural influences on maladjustment. Describes approaches for intervening clinically with childhood problems such as Attention Deficit Hyperactivity Disorder, conduct disorder, depression, and anxiety. Prereq: Cons. of dept.
PSYC 8511. History and Theoretical Foundations of Psychology. 3 cr. hrs.
The history of psychology as a scientific discipline and of clinical psychology as a profession. Current relevant issues in the philosophy of science. Relationship between different basic theoretical assumptions, personality theories, and perspectives on treatment. Theoretical issues in the study of individual differences and clinical interventions. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8525. Advanced Personality Psychology. 3 cr. hrs.
Covers major theoretical models and empirical approaches to the study of the person. Emphasis is placed on the current science of personology, the study of the whole person in context and over time. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8630. Advanced Developmental Psychology. 3 cr. hrs.
Provides an in-depth study of developmental processes, motivation dynamics, creativity and innovation, leadership and group processes, negotiation, organizational culture and structure. Workshop format features interactive learning. Includes new trends from organizational research. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8660. Advanced Social Psychology. 3 cr. hrs.
Analysis of social psychological theory and research, including self processes, attitudes, persuasion, social influence, prejudice, group behavior, interpersonal relationships, aggression, and helping behavior. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8665. Industrial Psychology and Organizational Development. 3 cr. hrs.
An experiential seminar for in-depth study of organizational diagnosis, change and development processes, motivation dynamics, creativity and innovation, leadership and group processes, negotiation, organizational culture and structure. Workshop format features interactive learning. Includes new trends from organizational research. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8668. Personnel Selection. 3 cr. hrs.
Theory and contemporary applications concerning job analysis; ability, aptitude, and personality, and other forms of pre-employment testing; racial fairness and bias in testing; performance appraisal; utility analysis for selection techniques; special selection requirements for management, sales, creative people, and other professionals; career choice and planning composition of work groups. Prereq: Cons. of instr.; completion of B.A. or B.S. in management, social sciences, or engineering.

PSYC 8740. Foundations and Processes of Human Cognition. 3 cr. hrs.
Examines the history, current theories and methods of cognitive psychology and cognitive neuroscience with emphasis on perception, attention, memory, language, and executive functions. Discusses the relevance of gender, age, and culture to cognitive process, as well as clinical applications. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8745. Introduction to Neuropsychological Assessment. 3 cr. hrs.
Prereq: PSYC 8740, PSYC 8780 or equiv., PSYC 8301 and PSYC 8302 or equiv., and cons. of instr. or admission to clinical program.

PSYC 8780. Biological Bases of Behavior. 3 cr. hrs.
The nervous system as the mediator of behavior. Physiological and neural factors in sensation, motor response, instinct, emotion, learning, and thinking. Prereq: Cons. of instr. or admission to clinical program.

PSYC 8787. Psychopharmacology. 3 cr. hrs.
Study of the major classes of drugs, their physiological mechanisms of action, and their efficacy in the treatment of mental disorders. Prereq: PSYC 8780 or equiv., PSYC 8401, and cons. of instr. or admission to clinical program.

PSYC 8810. Translational Foundations of Applied Research. 3 cr. hrs.
Designed to provide a survey of the theoretical and experimental foundations of the practice of behavior analysis, including the basic principles of learning and behavior and the role of translational research to create a bridge between basic science and application. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 8830. Advanced Conceptual Framework of Behavior Analysis. 3 cr. hrs.
Designed to provide an advanced survey of the conceptual framework that underpins behavior analytic theory and the philosophies of science that contributed to this approach. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 8850. Skill Acquisition and Emergence. 3 cr. hrs.
Designed to familiarize students with behaviorally-based skill acquisition services delivered to individuals with ASD, intellectual disabilities and developmental disabilities. Everyday behavior and how it changes are explained by learning principles derived from an analysis of scientific research. Students learn procedures that derive from behavioral principles and practice implementing those procedures within assigned projects. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 8931. Topics in General Psychology. 3 cr. hrs.
Contemporary theoretical and research trends, particularly in areas of experimental, social, developmental, abnormal, quantitative or physiological psychology. Prereq: Cons. of dir. of clinical training.

PSYC 8932. Advanced Topics in Clinical Psychology. 3 cr. hrs.
Seminar format that examines special topics related to the assessment, etiology, or treatment of psychological problems. A maximum of 3 credit hours can be applied to the degree. Prereq: Cons. of dir. of clinical training.

PSYC 8952. Colloquium in Psychology. 0 cr. hrs.
Research and scholarly reports on selected topics in scientific and professional psychology by visiting investigators, departmental faculty and graduate students. SNC/UNC grade assessment. Attendance required of all full-time regular students.
PSYC 8953. Introduction to Professional Practice. 0 cr. hrs.
Seminar for first-year graduate students. Introduces the clinical program expectations and requirements, including participation in group supervision, assistantship duties, and adjusting to graduate school. Prereq: First year student in CLPS or cons. of dept. ch.

PSYC 8954. Advanced Professional Practice Seminar. 0 cr. hrs.
Seminar for second-year graduate students. Reviews clinical program expectations and requirements, including material related to clinical evaluations and interventions, externships, master's theses, and assistantship duties. Focuses on professional identity development. Prereq: Second year student in CLPS or cons. of dept. ch.

PSYC 8955. Seminar in Teaching of Psychology. 0 cr. hrs.
Covers some of the theories and strategies of effective teaching, including creating syllabi, course management, lecture styles, student management issues, creating tests, and grading and assessment strategies. Available to third and fourth year students. Meets all year, once or twice per month. Incorporates practice lectures with feedback. For students who plan to teach for the department or who plan on teaching as part of their careers. Students must attend both terms. SNC/UNC grade assessment. Prereq: Cons. of instr. and admission to clinical program.

PSYC 8956. Professional Development Seminar. 1 cr. hr.
Designed to provide students with professional development experiences related to the profession of behavior analysis. Students present topics related to behavior analysis. Other speakers include relevant faculty members from Marquette or other universities, behavior-analytic practitioners or other autism-related professionals from the community. Prereq: Admission to behavior analysis specialization; or cons. of instr.

PSYC 8958. Professional Development Seminar. 0-6 cr. hrs.
Supervised experience in psychological assessment, interventions, and consultation. Students enroll in 6 credit hours over the course of study. A maximum of 6 credit hours can be applied to the degree. 0 credit will be SNC/UNC grade assessment; 1-6 credits will be graded. Prereq: Admission to clinical program.

PSYC 8986. Internship in Clinical Psychology. 0 cr. hrs.
All students in the doctoral program in clinical psychology are required to complete a full-year (2000 hours) internship program that meets the requirements for internship training as stipulated by the American Psychological Association. Registration for this full-time non-credit course in each of three terms during the internship year is obligatory. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9970. Graduate Standing Continuation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9974. Graduate Fellowship: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9975. Graduate Assistant Teaching: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dept. ch.

PSYC 9976. Graduate Assistant Research: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9965. Advanced Practicum in Clinical Psychology. 0-6 cr. hrs.
Supervised experience in psychological assessment, interventions, and consultation. Students enroll in 6 credit hours over the course of study. A maximum of 6 credit hours can be applied to the degree. 0 credit will be SNC/UNC grade assessment; 1-6 credits will be graded. Prereq: Admission to clinical program.

PSYC 9984. Master's Comprehensive Examination Preparation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9985. Master's Comprehensive Examination Preparation: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9986. Master's Comprehensive Examination Preparation: Full-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9987. Doctoral Comprehensive Examination Preparation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9988. Doctoral Comprehensive Examination Preparation: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9989. Doctoral Comprehensive Examination Preparation: Full-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9991. Professional Project Continuation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9992. Professional Project Continuation: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9993. Professional Project Continuation: Full-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.
PSYC 9994. Master's Thesis Continuation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9995. Master's Thesis Continuation: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9996. Master's Thesis Continuation: Full-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9997. Doctoral Dissertation Continuation: Less than Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9998. Doctoral Dissertation Continuation: Half-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.

PSYC 9999. Doctoral Dissertation Continuation: Full-Time. 0 cr. hrs.
Fee. SNC/UNC grade assessment. Prereq: Cons. of dir. of clinical training.