Psychology

Chair: Brumley
Professors: Lawyer, Letzring, Lynch, Rasmussen, Turley-Ames, Wong
Associate Professors: Brumley, Swift, Xu
Assistant Professors: Aubuchon-Endsley, Fulton, McCarrey, Peer, Rieske
Visiting Assistant Professors: McDonald, Miyake
Adjunct Faculty: Anderson, Hendrickson,Landers, Pongratz, Staley, Westerhaus, Wood Roberts
Emeritus: Enloe, Hatzenbuehler, Joe, Roberts

Doctor of Philosophy in Clinical Psychology

Doctoral training in clinical psychology is fully accredited by the American Psychological Association. All educational experiences needed to obtain a license to practice psychology in Idaho, and most other states and provinces, are offered. Theory, research, and practice are integrated into a comprehensive, five-year program. It is the goal of the doctoral training program to produce clinical psychologists who are well trained in the science of human behavior and its application to diverse clinical populations. All students are required to participate in course work and practica that emphasize assessments and treatments in all major areas of child and adult psychopathology. Evaluations of each student’s clinical-professional development and scholarship-research skills are continuous.

Goals
Five program goals have been defined:

• research knowledge and skills;
• professional knowledge and skills;
• integration of science and practice;
• professional identification and ethical practice; and
• appreciation of individual differences, cultural differences, and diversity of practice.

Each goal has associated objectives and competencies.

Doctor of Philosophy in Experimental Psychology

Doctoral training in Experimental Psychology provides students with education and research training in the core areas of psychological science, e.g., personality, social psychology, learning, cognition, developmental psychology, and behavioral neuroscience. Students who complete the doctoral program may pursue academic or non-academic careers. To prepare for their future careers, students need to (i) have a solid foundation in basic areas of psychology (breadth of knowledge) and also (ii) develop an expertise in their research areas (depth of knowledge). Our program offers a variety of courses to help students accomplish their career goals.

Goals
Four program goals have been defined:

• research knowledge and expertise;
• breadth of knowledge and integration of core areas in psychology;
• competencies in scientific methodology and analysis;
• effective communication skills.

Each goal has associated objectives and competencies.

Master of Science in Psychology

Students enrolled in the Clinical and Experimental Psychology doctoral programs earn a Master's of Science in Psychology as they work towards their doctorate, for course work completed along the way. This is not a stand-alone Master of Science in Psychology program.

Goals
To ensure that students who receive a Master’s degree in psychology will be prepared for further post-graduate study and for careers in related areas, the department has identified the following goals:

• an understanding of core areas and the breadth of the field of psychology and its applications;
• ability to integrate knowledge and theories across, and to think critically about, topics within the domains of psychology;
• competence in library information technology and computer applications related to the study of psychology;
• competence in scientific methodology and analysis as they apply to the study of psychology;
• ability to communicate effectively, in both oral and written form, about issues within the field of psychology;
• active participation in the research process;
• understanding and compliance with the APA code of ethics pertaining to research conduct.

Each goal has associated objectives and competencies.

Doctor of Philosophy in Clinical Psychology

Admission Requirements
Admission requirements are as stated for the Master of Science in Psychology with the following additions: all students must have been recommended by the Clinical Admissions Committee of the Psychology Department.

General Requirements
All doctoral students must complete the Master of Science in Psychology, or its equivalent, as noted below. Students entering the doctoral training program at Idaho State University with a master's degree from another institution will receive full or partial credit, based on an examination of completed course work and research. The department chair, the director of clinical training, and the departmental subject matter expert(s) will review all relevant documents and determine the course work and research, if any, that will be required to compensate for omissions and/or non-equivalency.

The following requirements are all in addition to the Master of Science requirements.

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PSYC 6620</td>
<td>Psychodiagnosics I</td>
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PSYC 6621  Psychodiagnosics II  3
PSYC 6623  Advanced Psychological Measurements  3

Clinical Core
PSYC 5512  Ethical and Professional Issues in Psychology  2
PSYC 6634  Cultural Diversity and Individual Differences  3
PSYC 6645  Adult Psychopathology and Treatment I  3
PSYC 6646  Adult Psychopathology and Treatment II  3
PSYC 6649  Child Psychopathology and Treatment  3
PSYC 7701  Clinical Psychology  2
PSYC 7702  Introduction to Psychotropic Medication  2
PSYC 7703  Advanced Ethics and Professional Issues  1
PSYC 7736  Clinical Proseminar  1-3
PSYC 7704  Supervision and Consultation in Clinical Psychology  3

Professional Training
PSYC 5517  Interdisciplinary Evaluation Team  1
PSYC 7724  Community Practicum  1-2
PSYC 7725  Psychology Clinic Practicum  1-2
PSYC 7726  Supervision Practicum  1-2
PSYC 7727  Psycho-Educational Evaluations  1
PSYC 7748  Clinical Externship  1
PSYC 7749  Clinical Internship  1

Research
PSYC 8850  Dissertation  1-12
PSYC 6637  Multivariate Statistics and Research Design  3

General Electives
Students must apply 6 additional graduate credits in psychology from the MS degree.

History and Systems Requirement
PSYC 6672  History and Systems  3

Minimum Total Credits  70

The 12 elective credits earned for the Master of Science degree, described below, will satisfy course requirements for the Doctor of Philosophy, subject to the approval of the Departmental Chair.

Scholarship - Research Development
Upon completion of Area Requirements plus PSYC 6627 Statistics and Research Design I and PSYC 6632 Statistics and Research Design II, and the thesis prospectus, doctoral students are required to pass a Qualifying Exam to be admitted to doctoral candidacy. The exam samples each student’s integrative writing skills and conceptual abilities. Students write independently on integrative topics from across the foundational areas of general psychology or from an individualized and focused area of scholarly research.

Students may be admitted to candidacy for the doctoral degree upon satisfactory completion of the Master of Science degree (or its equivalent) and the Qualifying Exam. Candidates for the doctoral degree may not propose a dissertation (PSYC 8850 Dissertation) until admitted to candidacy.

A five-member doctoral committee will be formed by the student and his/her advisor. Three members of the doctoral committee must be fulltime equivalent faculty members of the Department of Psychology, including at least one clinical and one experimental faculty member. The fourth and fifth members must meet Graduate School requirements and include the Graduate Faculty Representative. Students will present findings and implications of the dissertation to departmental faculty, students, and community members at an open forum.

Clinical - Professional Development
All students must complete at least 15 credits related to professional development. Among these 15 credits, students must take at least 3 credits of PSYC 7725 (Psychology Clinic Practicum), 1 credit of PSYC 5517 (Interdisciplinary Evaluation Team), and at least 3 credits of PSYC 7749 (Clinical Internship). All students must perform five disability evaluations at the ISU Psychology Clinic. The remaining practicum credits can be fulfilled by taking any combination of practicum-related courses, including PSYC 7724 (Community Practicum), PSYC 7725 (Psychology Clinic Practicum), PSYC 7748 (Clinical Externship), PSYC 7727 (Psychoeducational Evaluations) or PSYC 7726 (Supervision Practicum). Progress in the development of professional skills is evaluated by faculty supervisors and the Clinical Training Committee and satisfactory evaluations of professional development by the Clinical Training Committee is a degree requirement. All practicum assignments are made by the Clinical Training Committee and students may be required to register for practicum courses beyond the minimum requirements in the interest of professional development.

All students must satisfactorily complete a one-year full-time clinical internship at a site belonging to the Association of Psychology Postdoctoral and Internship Centers or comparable supervised clinical practice approved by the Clinical Training Committee. Concurrent enrollment at Idaho State University in 1 credit of PSYC 7749 Clinical Internship is required over the course of three semesters. Students enrolled in PSYC 7749 will be considered full-time Idaho State University students. Application to clinical internships and acceptance into clinical internships requires completion of the dissertation prospectus and the approval of the Clinical Training Committee.

Doctor of Philosophy in Experimental Psychology

Admission Requirements
Admission requirements are as stated for the Master of Science in Psychology with the following additions: all students must be recommended by the Experimental Admissions Committee of the Psychology Department.

General Requirements
All doctoral students must complete the Master of Science in Psychology, or its equivalent. Students entering the doctoral training program at Idaho State University with a master’s degree from another institution will receive full or partial credit, based on an examination of completed course work and research. The department chair, the director of experimental training, and the department subject matter expert(s) will review all relevant documents and determine the course work and research, if any, that will be required to compensate for omissions and/or non-equivalency. The following requirements are all in addition to the Master of Science requirements.

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<tr>
<td>PSYC 6637</td>
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<tr>
<td>PSYC 5583</td>
<td>Special Problems</td>
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Select one or both of the following for a total of 10 credits:
Research

PSYC 6641 Special Problems

Electives 1 12

Total Hours (36 from the M.S. degree + 31 additional credits) 67

1 Students must complete 18 credits of elective classes. Up to nine credits of these electives may be taken outside the Psychology Department. Electives should be approved by the student’s faculty advisor. The 12 elective credits earned for the Master of Science degree will satisfy course requirements for the Doctor of Philosophy degree, subject to approval of the Department Chair.

Scholarship - Research Development

Upon completion of Area Requirements plus PSYC 6627 Statistics and Research Design I and PSYC 6632 Statistics and Research Design II, and the thesis prospectus, doctoral students are required to pass a Qualifying Exam to be admitted to doctoral candidacy. The exam samples each student’s integrative writing skills and conceptual abilities. Students write independently on integrative topics from across the foundational areas of general psychology or from an individualized and focused area of scholarly research.

Students may be admitted to candidacy for the doctoral degree upon satisfactory completion of the Master of Science degree (or its equivalent) and the Qualifying Exam. Candidates for the doctoral degree may not propose a dissertation (PSYC 8850) until admitted to candidacy.

A five-member doctoral committee will be formed by the student and his/her advisor. Three members of the doctoral committee must be full-time equivalent faculty members of the Department of Psychology, including at least one clinical and one experimental faculty member. The fourth and fifth members must meet Graduate School requirements and include the Graduate Faculty Representative. Students will present findings and implications of the dissertation to departmental faculty, students, and community members at an open forum.

Master of Science in Psychology

Admission Requirements

1. In addition to the general requirements of the Graduate School, the applicant must have: minimum entrance requirements include a 3.0 grade point average during the last two years of undergraduate study.
2. A Bachelor of Science or Bachelor of Arts with an undergraduate major in psychology or the equivalent.
3. Graduate Record Exam scores of the 50th percentile or higher are preferred on two of the three aptitude tests (verbal, quantitative, or analytical writing).
4. Passing grades in undergraduate courses in research methods and statistics.
5. Sufficient exposure to fundamental core areas in psychology to be successful at the graduate level.
6. Recommendation by the Experimental or Clinical Admissions Committee of the Department of Psychology. The Clinical and Experimental Admissions Committees only admit students into the combined Master of Science and Doctor of Philosophy course of study.

General Requirements

The MS in Psychology degree is earned after the successful completion of at least 36 semester credit hours of approved course work. Students deficient in area prerequisites may be required to enroll in additional course work and/or experience limitation of choices. Students admitted by the Clinical Admissions Committee must complete the Clinical Area Requirements, but may waive one Area requirement course if they passed an advanced undergraduate course (or courses) that provided broad exposure to subject matter addressed in that course. Course materials must be reviewed and approved by a content expert in the department before permission to waive a course is given. Students admitted by the Experimental Admissions Committee must complete the Experimental Area Requirements.

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<td>Statistics and Research Design II</td>
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<tr>
<td>PSYC 6650</td>
<td>Thesis</td>
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Select either Clinical or Experimental Area:

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<tr>
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<tbody>
<tr>
<td>PSYC 6642</td>
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<tr>
<td>PSYC 6643</td>
<td>Advanced Social Psychology</td>
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<tr>
<td>PSYC 6644</td>
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Area A: Biological Bases of Behavior (Complete one 3-credit course)

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<tr>
<td>PSYC 5531</td>
<td>Behavioral Neuroscience I</td>
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<tr>
<td>PSYC 5532</td>
<td>Behavioral Neuroscience II</td>
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Area B: Cognitive, Developmental, Social Bases of Behavior (Complete two 3-credit courses)

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<td>Advanced Developmental Psychology</td>
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Area C: Individual Behavior (Complete one 3-credit course)

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<tr>
<td>PSYC 6650</td>
<td>Advanced Personality</td>
<td>3</td>
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<tr>
<td>PSYC 5570</td>
<td>Advanced Topics in Learning</td>
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OR

Experimental Area Requirements

Core Area (Select four of the following):

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<td>PSYC 5570</td>
<td>Advanced Topics in Learning</td>
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</tr>
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<td>PSYC 6643</td>
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<tr>
<td>PSYC 6644</td>
<td>Advanced Developmental Psychology</td>
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<tr>
<td>PSYC 6647</td>
<td>Advanced Personality</td>
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Electives

Students must also complete 12 credits of elective classes. Up to six credits may be taken outside the Psychology Department. Electives should be approved by the faculty advisor.

Total Hours 36

Total Credits 78

Courses

PSYC 5501 Theories of Personality: 3 semester hours.

Study of the main theories of personality from both historical and contemporary perspectives, including trait theory, biological, psychoanalytic, humanistic, cross-cultural, behavioral, and social learning. Emphasis will be given to applying theories with the goal of understanding personality and predicting behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.
PSYC 5502 Teaching of Psychology: 1-2 semester hours.
Prepare students to teach independently. Pedagogy, use of technology, and problem solving skills related to teaching psychology courses will be discussed. Supervised teaching will be treated as a separate module. Repeatable up to 4 credits. Graded S/U.

PSYC 5504 Sensation and Perception: 4 semester hours.
The anatomical and physiological basis of sensation will be reviewed. Moreover, traditional and contemporary theories of perception will be critically considered. Students will be expected to do laboratory work illustrating basic concepts of sensory and perceptual function. PREREQ: PSYC 4431 or PSYC 4446.

PSYC 5508 Science Pseudoscience and Psychology: 3 semester hours.
Designed to teach scientific thinking and how to critically evaluate fringe-science, paranormal, and other unproven claims. The psychological processes underlying pseudo-scientific thinking and beliefs also are introduced.

PSYC 5512 Ethical and Professional Issues in Psychology: 2 semester hours.
An introduction to ethical and professional standards in the field of psychology including a historic and contemporary framework. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

PSYC 5517 Interdisciplinary Evaluation Team: 1 semester hour.

PSYC 5531 Behavioral Neuroscience I: 3 semester hours.
Introduction to behavioral neuroscience with an emphasis on the relation between the central nervous system and behavior. Topics include: basic neuroanatomy, neurophysiology, hormones, sensory systems, motor systems, learning, memory, homeostatic regulation, and evolution. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

PSYC 5532 Behavioral Neuroscience II: 3 semester hours.
Critical evaluation of contemporary research in behavioral neuroscience. Emphasizes current research and theories concerning neural mechanisms of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 5531 or permission of instructor.

PSYC 5535 Animal Behavior: 3 semester hours.
Study of experiments in animal learning that have thrown light upon the problem of understanding human learning. Course is concerned with both observation and experimental studies of habit formation, conditioning, related endocrinology, and nerve structure as they are associated with behavior capabilities. PREREQ: Six hours of psychology beyond PSYC 1101.

PSYC 5545 Learning and Behavior: 3 semester hours.
Survey of the major principles of learning, including the processes underlying operant and classical conditioning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

PSYC 5563 Clinical Psychology and the Law: 3 semester hours.
An introduction to the field of forensic psychology by exposing students to the primary areas in which clinical psychology relates to the legal system. Emphasis will be on expert testimony by clinicians in matters of criminal responsibility, mental competency, civil commitment, and child custody. PREREQ: Permission of instructor.

PSYC 5565 Behavioral Medicine: 3 semester hours.
Psychological issues of health, disease states, and prevention. Critical evaluation of clinical research and practice including nontraditional healing techniques and current models used to understand health and disease.

PSYC 5567 Topics in Psychology: 1-6 semester hours.
Selected topics in psychology. Contents vary. May be repeated with different content and departmental approval for a total of 6 credits.

PSYC 5570 Advanced Topics in Learning: 3 semester hours.
In-depth study of the major theories, principles, and research in learning. Areas of emphasis include the experimental analysis of behavior, stimulus control, schedules of reinforcement, aversive control, and the quantitative analysis of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 4445 or PSYC 5545 or permission of instructor.

PSYC 5583 Special Problems: 1-3 semester hours.
Research or readings in a special area of interest to be arranged on an individual basis with individual faculty. May be repeated to a maximum of 12 credits. PREREQ: Permission of Instructor.

PSYC 5599 Experimental Course: 1-6 semester hours.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

PSYC 6620 Psychodiagnosics I: 3 semester hours.
Theory, measurement development, and current use and limitations of major tests of intelligence, academic achievement, development, and neurological function. Practice in test administration is included.

PSYC 6621 Psychodiagnosics II: 3 semester hours.
Theory, measurement development, and current use and limitations of major tests of personality, both objective and projective, with an emphasis on classification decisions. Practice in test administration is included.

PSYC 6623 Advanced Psychological Measurements: 3 semester hours.
Psychological measurement theory, the mathematical basis of reliability and validity constructs, and test construction strategies are introduced. Measurement principles are then generalized across response modes and methods, focusing on direct observation technologies.

PSYC 6627 Statistics and Research Design I: 3 semester hours.
Critical review of the theory and the methods used to evaluate the outcome of empirical research in the life and social sciences. Chi square, correlation, regression, analysis of variance designs are considered and related to the theoretical distributions basic to statistical inference. PREREQ: Psychology Graduate Student.

PSYC 6632 Statistics and Research Design II: 3 semester hours.
Basic assumptions in the philosophy of scientific investigation, principles of design and analysis of experiments, including tests of significance and factorial designs, and reporting of research, in which the student is required to prepare reports of his/her own work as if for publication. PREREQ: Psychology Graduate Student.

PSYC 6634 Cultural Diversity and Individual Differences: 3 semester hours.
Critical evaluation of scholarship on and social representations of cultural diversity and individual differences. Review of current theory, research, assessment, and intervention practices with diverse populations.

PSYC 6636 Neuropsychological Assessment: 3 semester hours.
Introduction to the selection, administration, scoring, and interpretation of commonly used neuropsychological tests, including tests of conceptual, perceptual, and linguistic ability. PREREQ: PSYC 6620 and PSYC 6621.

PSYC 6637 Multivariate Statistics and Research Design: 3 semester hours.
Continuation of research principles in design and analysis, emphasizing the use of multiple dependent variables, strategies for investigating latent variables, and testing complex causal models.
PSYC 6641 Special Problems: 1-3 semester hours.  
The individual works under faculty guidance. The student will pursue original research in some area of psychology of particular interest to him or her and write a report of his or her work in a form suitable for publication. Repeatable up to 12 credits. PREREQ: Permission of instructor.

PSYC 6642 Cognitive Psychology: 3 semester hours.  
Examines cognitive processes underlying perception, attention, mental imagery, memory, language, and problem solving/decision making. Cognitive development and individual differences are discussed. Both theory and experimental findings are emphasized in each area.

PSYC 6643 Advanced Social Psychology: 3 semester hours.  
Review of current research and major theories of social psychology. Areas of emphasis include attitude, persuasion, prejudice and stereotyping, attraction, aggression, helping, and social cognition.

PSYC 6644 Advanced Developmental Psychology: 3 semester hours.  
Study of developmental theories, issues, and research across the lifespan. Emphasis is on current empirical research, highlighting the interaction of biological, cognitive, and social domains of development within and between individuals.

PSYC 6645 Adult Psychopathology and Treatment I: 3 semester hours.  
Exposure to fundamental issues in etiology and assessment of adult psychopathology, including advancements in diagnostic classification, focusing on Axis I disorders such as anxiety and mood disorders. Empirically supported treatment methods are emphasized.

PSYC 6646 Adult Psychopathology and Treatment II: 3 semester hours.  
Continued review of theories and forms of adult psychopathology, diagnostic categories, and models of treatment. Empirically supported treatment models that consider the therapeutic process, therapeutic relationship, and sociocultural context are emphasized. PREREQ: PSYC 6645 or permission of instructor.

PSYC 6647 Advanced Personality: 3 semester hours.  
This course will explore contemporary personality theory, as well as significant areas and trends in the current empirical literature.

PSYC 6649 Child Psychopathology and Treatment: 3 semester hours.  
Review of the psychopathology, assessment, diagnosis, and treatment of major psychological disorders of childhood, including mental retardation, autism, learning disability, attention deficit hyperactivity disorder, oppositional defiant disorder, and conduct disorder.

PSYC 6650 Thesis: 1-6 semester hours.  
Thesis. May be repeated. Graded S/U.

PSYC 6671 Professional Development and Writing: 3 semester hours.  
This course orients students to the job market and focuses on the development ad improvement of professional skills (e.g., time management) and writing skills (e.g., cover letters, manuscripts, grant proposals, statements.)

PSYC 6672 History and Systems: 3 semester hours.  
Survey of historical and philosophical bases of theories of psychology presently used. Emphasis on understanding impact of political, cultural, and historical forces on ideas and methods used in psychology. PREREQ: Passage of qualifying examination.

PSYC 6699 Experimental Course: 1-6 semester hours.  
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

PSYC 7701 Clinical Psychology: 2 semester hours.  
Orientation to professional training, evaluation, diagnosis, and treatment. Orientation to the ISU Psychology Clinic procedures and report writing requirements. Introduction to clinical interviewing, crisis management, supervision, and consultation.

PSYC 7702 Introduction to Psychotropic Medication: 2 semester hours.  
Introduction to clinical psychopharmacology meeting American Psychological Association guidelines for Level 1 predoctoral training. Disorders of substance abuse, psychosis, mood, anxiety, and development are highlighted. PREREQ: PSYC 5532.

PSYC 7703 Advanced Ethics and Professional Issues: 1 semester hour.  
Systematic review of ethical decision-making emphasizing analysis of complex ethical issues. Professional topics include supervision, post-doctoral training, licensure, management of high-risk patients, self-care, and emerging models of behavioral health consultation. PREREQ: PSYC 5512.

PSYC 7704 Supervision and Consultation in Clinical Psychology: 3 semester hours.  
Introduction to theories and processes associated with supervision and consultation in the context of clinical psychology. PREREQ: PSYC 7701

PSYC 7724 Community Practicum: 1-2 semester hours.  
Students work in public or private mental health agencies under qualified supervisors. Professional activities include evaluation and therapy. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7725 Psychology Clinic Practicum: 1-2 semester hours.  
Students are supervised in the evaluation and treatment of clients served by the Psychology Department Clinic. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7726 Supervision Practicum: 1-2 semester hours.  
Guided supervisory experiences with junior colleagues in the ISU Psychology Clinic. Graded S/U. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7727 Psycho-Educational Evaluations: 1 semester hour.  
Interviewing, test selection, test administration, case conceptualization, report writing, and interpretation skills are performed under supervision. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7736 Clinical Proseminar: 1-3 semester hours.  
Specific areas of psychopathology, assessment, diagnosis, intervention, and/or associated theoretical models are reviewed in a seminar format with subject matter experts. May be repeated with different content.

PSYC 7748 Clinical Externship: 1 semester hour.  
Clinical practice in regional human service agency. Minimum 10 hours per week; 1 hour supervision by Ph.D. psychologist per 20 contact hours. Repeatable up to 12 credits. Graded S/U. PREREQ: Approval of Clinical Training Committee.

PSYC 7749 Clinical Internship: 1 semester hour.  
Predoctoral internship, 11-12 months, at a member site of the Association of Psychology Postdoctoral and Internship Centers, or comparable supervised clinical practice approved by the Clinical Training Committee. Repeatable up to 3 credits. Graded S/U. PREREQ: Approval of Clinical Training Committee.

PSYC 8850 Dissertation: 1-12 semester hours.  