

# MUNROE MEYER INSTITUTE (MMI)

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## **MMI 813 APPLICATIONS OF STATISTICS IN PSYCHOLOGY 3 Credit Hours**

This course will cover statistical tools that may be used to answer a variety of research questions for group designs. It is focused on the applied nature of research in behavioral health fields, and therefore will use exercises and assignments relevant to behavioral health.

Instructor: Holly Roberts

Typically Offered: SPRING

## **MMI 855 PSYCHOTHERAPEUTIC INTERVENTIONS 3 Credit Hours**

This course provides graduate students knowledge in the application of evidence-based therapeutic interventions that can be utilized with children and adolescents in school, home, and family settings. Various approaches and techniques are presented along with supporting research. Observation and participation in clinical cases may be arranged.

Prerequisite: PSYC 8576 @ UNO or PSYC 9040 @ UNO

Typically Offered: SPRING

## **MMI 857 BEHAVIOR ANALYSIS AND INTERVENTION 3 Credit Hours**

An examination of the methodological, empirical, and conceptual issues involved in the extension of behavior analytic principles to applied settings. Topics include a review of the basic principles in behavior analysis, issue of behavioral measurement, functional analysis of behavior, design and implementation of contingency management programs, and evaluation of behavior programs.

Typically Offered: FALL

## **MMI 870 ETHICS AND LAW FOR PSYCHOLOGY AND APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course is intended to provide graduate students with advanced knowledge of ethical codes, legal statutes, and case law that guide the profession of psychology and related applied fields with particular attention to the practice of applied behavior analysis. The primary emphasis of the class is on clinic-, community-, and school-based practice with children and adolescents. Topics include: ethics related to professional competency, professional practice; confidentiality and informed consent; education statutes and related case law; and juvenile and family law.

Typically Offered: FALL

## **MMI 896 RESEARCH OTHER THAN THESIS 1-3 Credit Hours**

Student research that is clearly distinct from ongoing or planned thesis/dissertation work, or research/lab rotations performed prior to selecting a permanent advisor or supervisor.

## **MMI 898 SPECIAL TOPICS 1-4 Credit Hours**

Presented at intervals depending upon the interest of the faculty or the request of students. A course description with its prerequisites is announced at the time the course is offered.

Typically Offered: FALL/SP/SU

## **MMI 899 MASTERS THESIS 1-9 Credit Hours**

Independent student research related to the masters thesis.

Typically Offered: FALL/SP/SU

## **MMI 901 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

An introduction to the fundamental mechanisms underlying neural development with an understanding that the brain continues to develop throughout life. The course is also designed to promote the abilities of students to critique research in the area of developmental neurobiology.

Prerequisite: Permission of instructor.

Typically Offered: FALL

## **MMI 902 INFANT DEVELOPMENT 3 Credit Hours**

This course focuses on the developmental time period of infancy, with a critical review of research examining selected aspects of motor behavior, perception, cognition, language, emotion and social relationships.

Theoretical issues considered will be the interaction of all of the above, embodied cognition, continuity and discontinuity in development, systems theory, and individual differences affecting the developmental trajectory. Conditions that put infants at risk for poor development will also be considered including prematurity, early medical complications, early experience and sensitive periods for development of different systems. Research design methods will be discussed in the context of examining change over time and intra- and inter-individual differences.

Prerequisite: Permission of instructor.

Typically Offered: FALL/SP/SU

## **MMI 903 CLINICAL BIOMECHANICS AND GAIT 1-4 Credit Hours**

This course is designed to teach clinical gait analysis to health care providers and graduate students interested in research related to clinical gait disorders. The mechanics of gait including kinematics, kinetics and use of electromyography are covered along with clinical biomechanics to gait analysis.

Prerequisite: CBA 571, PHYS 606, PE 4630 or equivalent permission of instructor.

Typically Offered: FALL/SP/SU

## **MMI 904 PROSEMINAR: LEARNING 3 Credit Hours**

The purpose of this course is to introduce you to the principles of behavioral learning. In this course, you will (1) learn to "facts" about basic principles of behavioral learning (2) learn to recognize the application of those basic principles, and (3) be introduced to some of the historical foundations of behavioral learning. This will be accomplished through readings, discussion, in-class activities, and individual projects.

Typically Offered: FALL

## **MMI 905 APPLIED BEHAVIOR ANALYSIS IN EDUCATION 3 Credit Hours**

The purpose of this course is to familiarize students with knowledge and skills in educational systems, educational assessment, educational interventions, and problem solving models with an emphasis on applied behavior analysis. Course Objectives: Demonstrate knowledge and skills in the areas of: Educational and special education systems, laws, and processes; Ethical guidelines and school policies related to providing services within schools; Ecological variables (e.g., multicultural, instructional, curricular, behavioral expectations, etc.) that may impact student behavior; Features of and logic behind multi-tiered models of prevention and intervention; Educational measurement and assessment; Implementation of assessment and intervention within a problem solving framework; Development of data collection systems for progress monitoring of interventions and decision-making within schools; Home-school collaboration and inclusion of family members in team meetings and intervention planning; Applied research in schools; The role of behavior analysis and the behavior analyst in education specific to assessment, intervention, consultation, and instruction.

Typically Offered: FALL/SPR

**MMI 910 SMALL-N RESEARCH METHODOLOGIES 3 Credit Hours**

An investigation of the strategies and tactics of small-n (single-subject) experimental design and research methodologies in behavioral analysis. Topics include conceptual basis and logic of the design, experimental control and internal validity (e.g., treatment of behavioral variability), data analysis, and interpretation of results.

Prerequisite: PSYC 8576 @ UNO or PSYC 9040 @ UNO

Typically Offered: SPRING

**MMI 912 HUMAN GENETICS LABORATORY 2 Credit Hours**

Development of research tools in human genetics. Includes culture of peripheral blood and human chromosome methodology, analysis and identification. Five student enrollment required for the course to be taught.

Prerequisite: PEDS 911 (or concurrent), a Bachelors or Masters degree in a biological or related field, and permission of instructor.

Cross List: PEDS 912.

Typically Offered: FALL

**MMI 914 ASSESSMENT AND TREATMENT OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

The purpose of this course is to familiarize students with the diagnosis, assessment, and treatment of autism spectrum disorders(ASD). Upon completion of this course, students should be able to: define and identify characteristics related to the diagnosis of ASD; understand etiological theories related to ASD; evaluate research related to a variety of assessments and behaviorally-based treatments for ASD; critically analyze the available evidence for fad treatments to ASD; and understand methods used to train behavior-change agents working with individuals with ASD.

Typically Offered: FALL/SPR

**MMI 917 HUMAN MOVEMENT VARIABILITY 3 Credit Hours**

Variability measures are rapidly becoming a valuable research tool for understanding neuromuscular control and health of the neuromuscular system. In this course, the student will develop the necessary scientific background to understand the current theoretical perspectives on the variations the are present in human movement and how to properly measure.

Prerequisite: MMI 903 or permission of instructor.

Typically Offered: FALL/SP/SU

**MMI 947 PRACTICUM IN APPLIED BEHAVIOR ANALYSIS 1-6 Credit Hours**

This is a year-long practicum designed to provide students with intensive supervised experience providing behavior analytic services to improve the well-being of children and their families. There are three "rotations" corresponding to academic year semesters (Fall, Spring, Summer).

Students will typically complete 300 hours respectively in both the Fall and Spring semesters and 150 hours in the Summer. Students will participate in at least two (preferably three) different practicum rotations. Variable Credit: 1 credit hour corresponds to at least 100 hours of supervised practicum experience, excluding student's participation in practicum class meetings and assignments. Prereg: HPSY 940 @ UNMC or PSYC 8576 @ UNO.

Typically Offered: FALL/SP/SU

**MMI 957 APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course is intended to provide graduate students more in-depth exposure to the exposure to the philosophy and science of applied behavior analysis. Emphasis throughout the class will be on the intersection of the philosophy of behaviorism, the science of behavior analysis and the application of behavior analysis. It is assumed that students will have adequate understanding of basic principles of applied behavior analysis.

Prerequisite: PSYC 8576 @ UNO or PSYC 9040 @ UNO

Typically Offered: SPRING