Behavior Analysis and Therapy

The master’s degree program in behavior analysis and therapy is a 45-semester hour program. Candidates have the option of a research paper or a thesis. Candidates concentrating primarily on preparation for entry into the helping profession ordinarily opt to complete a research paper in their area of concentration. The thesis option typically requires a thesis of an experimental nature, a survey, or other form of research in which empirical data are collected and analyzed. Candidates must demonstrate their skills in formulating researchable questions or hypotheses, in identifying and/or manipulating relevant variables, and in the analysis and reporting of the results.

Behavior Analysis and Therapy

The behavior analysis and therapy program is devoted to the empirically-based development and application of learning principles to a wide variety of human needs. Training is offered in behavioral practice, research and theory as it applies to problems such as child abuse and neglect, developmental disabilities, chronic medical conditions, and traumatic head injury.

Degree Requirements

In fulfilling the 45 semester-hour requirement, the student must complete the required courses or their equivalent, at least two elective courses from those listed below, at least one 3-hour practicum, an internship, and either a research paper or thesis.

Required Courses

- BAT 503 Basic Behavior Analysis
- BAT 508 Complex Behavior Analysis
- BAT 509A Behavior Analysis Research Designs: Single-Subject Experimental Designs
- BAT 509B Behavior Analysis Research Designs: Group Experimental Designs
- BAT 512 Legal and Ethical Issues in Behavior Analysis
- BAT 535 Behavioral Observation Methods
- BAT 574 Staff Training and Development
- BAT 594B Practicum in Behavior Analysis and Therapy

Elective Courses

- BAT 515 Behavioral Applications to Medical Problems
- BAT 543 Child Behavior
- BAT 545 Behavior Analysis in Developmental Disabilities
- BAT 557A Self-Regulation of Behavior: Self-control
- BAT 557B Self-Regulation of Behavior: Biofeedback
- BAT 563 Behavioral Analysis: Community Applications
- BAT 584 Seminar in Behavior Analysis and Therapy
- BAT 589 Professional Seminar in Rehabilitation
Internship

The student must complete satisfactorily nine hours of REHB 595A, REHB 595B (Internship in Rehabilitation) under the supervision of a behavior analysis and therapy faculty member. The internship is typically begun following two semesters of course work.

Research Paper or Thesis

The student must complete satisfactorily three to six hours of REHB 593 (Research in Rehabilitation) or REHB 599 (Thesis) under the direction of a chairperson. The chairperson is a member of the behavior analysis and therapy faculty selected by mutual agreement between the student and the faculty member.

For the research paper, an additional graduate faculty member may be selected by mutual agreement between the student and the chairperson to serve as a reader. This is not required.

For the thesis, a second faculty member of the behavior analysis and therapy program will be selected by mutual agreement between the student and the chairperson to serve as thesis committee member. The committee will review the thesis prior to its initiation, as a prospectus, and after its completion, in an oral defense. At the oral defense, a third graduate faculty member, selected by mutual agreement between all parties, will be added to the committee to serve as a reader.

Behavior Analysis and Therapy Courses

BAT406 - Applied Behavior Analysis II 406-3 Applied Behavior Analysis II. This course is an advanced survey of basic and applied research related to the principles and procedures in behavior analysis. As the second part of the ABA courses, this course serves to extend student's understanding of the principles of respondent and operant conditioning through exposure to basic research and demonstrations of interventions across diverse populations and settings. Prerequisite: REHB 312 with a minimum grade of C.

BAT430 - Behavior Therapy 430-3 Behavior Therapy. This course will trace the history of behavior therapy from early days where aversive and punishment procedures were instated to modern day positive-based interventions. Various therapeutic approaches will be covered including behavioral relaxation training, functional analytic psychotherapy, acceptance therapy and positive/mindful therapies. Prerequisite: BAT 312, BAT 406 with minimum grades of C.

BAT433 - Appl Beh Analysis Peds Popultn 433-3 Applied Behavior Analysis with Pediatric Populations. This course provides students with knowledge related to the application of behavior analytic approaches to assessment and treatment of many childhood behavior problems. Topics covered will include assessment and treatment of problem behavior exhibited in school and home settings displayed by typically-functioning individuals, as well as individuals with a variety of developmental disorders. Prerequisite: BAT 312, BAT 406.

BAT440 - Ethics in BAT 440-3 Ethics in Behavior Analysis & Therapy. This course focuses on ethical conduct within the field of behavior analysis, and emphasizes problem-solving strategies to assist practitioners in resolving ethical dilemmas that may come about in the delivery of behavioral services. The course will provide an interpretation of the Behavior Analyst Certification Board guidelines for ethical conduct.

BAT441 - Assessment & Measurement 441-3 Assessment & Measurement. This course will provide an overview of behavioral observation methods, including approaches for monitoring and recording behavior over the course of behavior analytic services. Issues of reliability and validity will also be examined. Prerequisite: BAT 312.

BAT445H - Autism/Intellect Disabilities 445H-3 Autism and Intellectual Disabilities. This class introduces students to the variety of intellectual disabilities found within our society. Topics will range from how genetic mutations can result in life long disabilities, as well as how unknown factors produce
disorders such as autism. Students will learn about diagnoses, assessment and treatment for a variety of disorders and how to manage such disabilities throughout the lifespan.

**BAT452 - Behavior Analytic Appr to ISP** 452-3 Behavior Analytic Approaches to Individualized Service Planning. This course provides students with the skills to develop and evaluate service plans for individuals receiving community education, rehabilitation, and other services from a behavior analytic perspective. Topics covered include person-centered assessment, functional community based training, individualized assessment, and written treatment plans. Prerequisite: BAT 312; BAT 406 with minimum grades of C.

**BAT474 - Performance Management** 474-3 Performance Management. This course focuses on the application of behavior analysis within organizations. Using the principles of behavioral science, students will learn how to manage employee behavior, develop organizational goals and objectives, track performance of work teams, and provide objective measures of compensation. Topics will include program evaluation, motivation, performance reviews, and emerging trends in organizational design. Prerequisite: BAT 312; BAT 406 with minimum grades of C.

**BAT493 - Single-Case Research Methods** 493-3 Single-Case Research Methodology. This course will provide students with the skills necessary to act as critical consumers of intervention research. It will also provide students with the analytical skills necessary to apply the logic of single-case research methodology to their work with the consumer. Emphasized will be the critique and interpretation of published research, as well as the writing competencies required for a student to successfully prepare a research paper. Prerequisite: BAT 312 and simultaneous enrollment in or prior completion of BAT 406.

**BAT495 - Practicum** 495-3 Practicum. Application of behavioral analytic principles to clinical settings, cooperatively guided by Behavior Analysis and Therapy program faculty and human service agency staff. Prerequisite: BAT 312, BAT 406, BAT 440 with minimum grades of C.

**BAT503 - Basic Behavior Analysis** 503-3 Basic Behavior Analysis. Philosophy, terminology, and basic methodology of experimental and applied behavior analysis. Focuses on a variety of operant and respondent conditioning procedures for shaping new behaviors and modifying established behaviors. Special approval needed from the instructor.

**BAT505 - Behavioral Gerontology** 505-3 Behavioral Gerontology. This course examines the application of behavioral principles to problems associated with aging such as deficits in the activities of daily living and social skills, wandering, aggression, incontinence, depression and anxiety, and dementia among others. Environmental redesign and alternative performance strategies will also be addressed. Behavioral training and supervision of staff members who work with older individuals is also presented. Special approval needed from the instructor.

**BAT507 - Behavior Consult & Management** 507-3 Behavior Consultation and Management. Focus on the behavior analysis techniques needed for use in organizational and consultation settings. The fundamentals for developing effective consulting relationships are presented. Skills for becoming a behavior analytic consultant in clinical settings such as schools, developmental disability facilities, and managed care environments are presented. Additional behavior analytic consultant skills will be taught for effective practice of organizational behavior management in business and industry settings. Prerequisite: BAT 503.

**BAT508 - Complex Behavior Analysis** 508-3 Complex Behavior Analysis. Experimental analysis of procedures that result in acquisition, maintenance, and attenuation of complex individual and social behavior. Special approval needed from the instructor.

**BAT509A - Single Subj Exp Designs** 509A-3 Behavior Analysis Research Designs-Single Subject Experimental Designs. Focuses on behavior analysis research design and methodology. Three semester hours will be granted for each unit. Special approval needed from the instructor.

**BAT509B - Group Experimental Designs** 509B-3 Behavior Analysis Research Designs-Group Experimental Designs. Focuses on behavior analysis research design and methodology. Three semester hours will be granted for each unit. Special approval needed from the instructor.
BAT511 - Functional Analysis-Autism 511-3 Functional Analysis and Interventions-Autism. This course will survey research on the assessment and treatment of challenging behavior for individuals with autism. Defining characteristic, procedural variations, and strengths and limitations of the three general approaches to functional assessment will be reviewed. In addition, emphasis will be placed on strategies for using functional assessment information in the design of interventions to reduce challenging behavior. Prerequisite: BAT 503 or consent of instructor.

BAT512 - Legal and Ethical Issues 512-3 Legal and Ethical Issues in Behavior Analysis. Focuses on federal and state legislation, litigation, policies, guidelines, and other forms of legal and ethical control of the professional practice of behavior analysis and therapy. Implications for research and service will be discussed. Special approval needed from the instructor.

BAT515 - Apps to Medical Problems 515-3 Behavioral Applications to Medical Problems. Examines the use of behavior change procedures and applied behavior analysis in the treatment and rehabilitation of medically related problems such as obesity, alcoholism, headaches, hypertension and cerebral palsy; also, compliance to medical regimens, e.g., diabetes, dental hygiene, exercise; and promotes the utilization of health facilities and community health programs. Issues in training medical personnel to disseminate behavior change programs are also covered. Prerequisite: BAT 503 or consent of instructor.

BAT535 - Behavioral Observation Methods 535-3 Behavioral Observation Methods. Behavioral targeting, observational recording techniques, and issues of validity and reliability of measurement relevant to rehabilitation will be examined. Prerequisite: previous or concurrent enrollment in either BAT 452 or BAT 503 or consent of instructor.

BAT543 - Child Behavior 543-3 Child Behavior. A systematic analysis of child behavior. Included is an examination of popular books on child rearing. Emphasizes approaches for remediation of behavior disorders. Special approval needed from the instructor.

BAT545 - Behavior in Dev Disabilities 545-3 Behavior Analysis in Developmental Disabilities. Consideration of behavioral principles as applied in the development of responsive behavior in persons with developmental disabilities. Special approval needed from the instructor.

BAT557A - Self Regulation: Self-Control 557A-3 Self-Regulation of Behavior: Self-Control. The course provides a thorough review of self-control techniques and their application to habit disorders such as smoking, eating, exercise, time-management and nervous habits. Special approval needed from the instructor.

BAT557B - Self-Regulation: Biofeedback 557B-3 Self-Regulation of Behavior: Biofeedback. The course provides a comprehensive review of experimental and clinical studies of biofeedback. It concentrates on stress related disorders and provides supervised laboratory experience. Special approval needed from the instructor.

BAT563 - Community Applications 563-3 Behavioral Analysis: Community Applications. All aspects of behavior analysis applications in the community are examined including historical development, the "state of the art", practical issues and obstacles to conducting behavioral analysis/community research; future trends and directions. Prerequisite: BAT 503 or consent of instructor.

BAT567 - Behavioral Theories-Addiction 567-3 Behavioral Theories of Addiction. Focus on the behavior analysis techniques needed for use in the diagnosis and treatment of various addictions. The fundamentals of scientific behavioral research in addiction are presented along with current effective treatment strategies that promote behavior change. Skills will be developed for becoming a behavior analytic addiction researcher or treatment provider in clinical settings serving persons with gambling and other addictions.

BAT574 - Staff Training & Development 574-3 Staff Training and Development. This course prepares the student to design, implement, and supervise an institutional program to train staff in methods of direct service to the institution's clients. Each student will actually design and submit a program through simulation. Lecture/workshop format.

BAT575 - Applications of BA 575-3 Practical Applications of Behavior Analysis. This course teaches students to identify, employ, and evaluate behavior analytic procedures in applied settings. Additional
skills emphasized are those which enable students to communicate effectively with others involved in treatment planning and implementation. Lecture/workshop format.

**BAT584 - Seminar in BAT** 584-1 to 6 (1 to 3 per semester) Seminar in Behavior Analysis and Therapy. Special topics and new developments in modifying human behavior. Special approval needed from the instructor.

**BAT591 - Independent Projects in BAT** 591-1 to 18 Independent Projects in Behavior Analysis and Therapy. Systematic readings and development of individual projects in pertinent behavior analysis areas. No more than six hours may be counted toward the Master's degree. Special approval needed from the instructor.

**BAT593 - Research in BAT** 593-1 to 18 Research in Behavior Analysis and Therapy. Systematic investigation of factors and procedures relevant to behavior analysis. No more than six hours may be counted toward the Master's degree. Special approval needed from the instructor.

**BAT594 - Practicum in BAT** 594-1 to 12 Practicum in Behavior Analysis and Therapy. Supervised experiences in behavior analysis and therapy. Application of behavioral analysis/methods in human treatment and in management. Restricted to admission to the specific degree program.

**BAT595 - Internship in BAT** 595-1 to 12 Internship in Behavior Analysis and Therapy. Extended practice in Behavior Analysis settings cooperatively guided and supervised by agency staff and university faculty. Graded S/U only. Prerequisite: BAT 594 with a grade of B or better. Special approval needed from the department.

**BAT599 - Thesis** 599-1 to 6 Thesis. Special approval needed from the instructor.

**BAT601 - Continuing Enrollment** 601-1 per semester Continuing Enrollment. For those graduate students who have not finished their degree programs and who are in the process of working on their dissertation, thesis, or research paper. The student must have completed a minimum of 24 hours of dissertation research, or the minimum thesis or research hours before being eligible to register for this course. Concurrent enrollment in any other course is not permitted. Graded S/U or DEF only.

### Behavior Analysis and Therapy Faculty

- **Boyer, Valerie**, Associate Professor, Ph.D., SIUC, 2006; 2009. Child Language, animal-assisted therapy.
- **Crimando, William**, Professor, Ph.D., Michigan State University, 1980; 1980. Job development and placement, computers in rehabilitation, adjustment services, staff training and development.
- **Dixon, Mark**, Professor, Ph.D., University of Nevada-Reno, 1998; 2000. Behavior analysis, behavior therapy and medicine, gambling, brain injury.
- **Flowers, Carl**, Professor and Director, Rh.D., Southern Illinois University Carbondale, 1993; 2002.
- **Franca, Maria Claudia**, Associate Professor, Ph.D., Southern Illinois University Carbondale, 2006; 2008. Voice science and multicultural issues related to communication disorders and sciences.
Greene, Brandon, Professor, Emeritus, Ph.D., Florida State University, 1979; 1979. Behavior analysis in consumer affairs; parent and staff training.

Jowett Hirst, Erica S., Assistant Professor, Ph.D., University of Kansas, 2014; 2015. Behavioral psychology, preference for skill-acquisition procedures, parent training.

Koch, D. Shane, Professor, Rh.D., Southern Illinois University, 1999; 2005. Rehabilitation counseling, alcohol, drugs, and disability.

Lehr, Robert P., Jr., Professor, Emeritus, Ph.D., Baylor University, 1971; 1973.

Nichols, Jane L., Assistant Professor, Ph.D., Michigan State University, 2007; 2012. Rehabilitation Counseling, challenges in communication, decision making, and addictive behaviors.

Poppen, Roger L., Professor, Emeritus, Ph.D., Stanford University, 1968; 1970.

Redner, Ryan N., Assistant Professor, Ph.D., Western Michigan University, 2012; 2015. Tobacco regulatory science, treatment of smoking, application of behavioral economics.

Rehfeldt, Ruth Anne, Professor, Ph.D., University of Nevada-Reno, 1998; 2000. Autism, language acquisition and enhancement, supported employment, applied behavior analysis.


Schultz, Martin C., Professor, Emeritus, Ph.D., University of Iowa, 1955; 1986.

Simpson, Kenneth O., Associate Professor, Emeritus, Ph.D., University of Nebraska-Lincoln, 1995; 1994. Alternative/augmentative communication, motor speech disorders.

Taylor, Darrell, Associate Professor, Emeritus, Ph.D., University of South Florida, 1992; 1992. Vocational evaluation and work adjustment, cognate rehabilitation counseling.

Upton, Thomas, Professor, Ph.D., The University of Iowa, 2000; 2000. Rehabilitation counseling, advances in rehabilitation, persons with brain injury, disability attitudes, and postsecondary educational accommodations.


Wright, W. Russell, Associate Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1974; 1971.

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Catalog Year Statement:
Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.