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Behavior Analysis and Therapy

The M.S. degree in Behavior Analysis and Therapy is a 45-credit hour program. Candidates will complete a research paper or a thesis. Because of the requirements of our accrediting body, the Association of Behavior Analysis International, an empirical thesis is required. Only by approval of the program can a research paper be completed. 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.

Master of Science (M.S.) in 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 credit hour requirement, the student must complete the required courses or their equivalent, at least one 3 credit hour practicum, an internship, and either a research paper or thesis.

Required Courses

- BAT 503: Basic Behavior Analysis
- BAT 507: Behavior Consultation and Management
- BAT 508: Complex Behavior Analysis
- BAT 509A: Behavior Analysis Research Designs: Single-Subject Experimental Designs
- BAT 512: Legal and Ethical Issues in Behavior Analysis
- BAT 526: Applications of Behavior Analysis
- BAT 527: Verbal Behavior
- BAT 529: Radical Behaviorism I
- BAT 535: Behavioral Observation Methods
- BAT 594: Practicum in Behavior Analysis and Therapy
- BAT 595: Internship in Behavior Analysis and Therapy

Internship

The student must complete satisfactorily nine credit hours of BAT 595 (Internship in Behavior Analysis and Therapy) 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 six credit hours of BAT 593 (Research in Behavior Analysis and Therapy) or BAT 599 (Thesis) under the direction of a chairperson. The chairperson is a member of the behavior analysis and therapy faculty selected by program consensus.

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 and third faculty member of the behavior analysis and therapy program will be selected by program consensus to serve as thesis committee members. The committee will review the thesis before its initiation, as a prospectus, and after its completion, in an oral defense.

Accreditation

The M.S. in Behavioral Analysis and Therapy program is accredited by the [Association for Behavioral Analysis International \(ABAI\)](#).

Behavior Analysis and Therapy Courses

BAT406 - 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. Credit Hours: 3

BAT430 - 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. Credit Hours: 3

BAT433 - 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. Credit Hours: 3

BAT440 - 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. Credit Hours: 3

BAT441 - 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. Credit Hours: 3

BAT445H - 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. Credit Hours: 3

BAT452 - 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. Credit Hours: 3

BAT474 - 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. Credit Hours: 3

BAT493 - 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. Credit Hours: 3

BAT495 - 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. Credit Hours: 3

BAT503 - 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. Credit Hours: 3

BAT505 - 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. Credit Hours: 3

BAT507 - 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. Credit Hours: 3

BAT508 - 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. Laboratory fee not to exceed \$80 will be assessed to residential students. Online students will be expected to pay for virtual software out-of-pocket. Credit Hours: 3

BAT509A - 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. Credit Hours: 3

BAT509B - 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. Credit Hours: 3

BAT511 - 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. Credit Hours: 3

BAT512 - 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. Credit Hours: 3

BAT515 - 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. Credit Hours: 3

BAT526 - 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. Prerequisites: BAT 535, BAT 503, and BAT 509A. Credit Hours: 3

BAT527 - Analysis of Verbal Behavior This course is an advanced graduate seminar in verbal behavior. The course will examine Skinner's (1957) original analysis of verbal behavior as well as draw from other relevant literature in basic, applied, and conceptual analyses of behavior. In addition, course content will include critiques of, and responses to, Skinner's analysis of verbal behavior as well as literature on Relational Frame Theory and applied topics. Credit Hours: 3

BAT528 - Experimental Analysis of Behavior This course is designed to provide practical mastery over the basic principles of behavior. The complexities of principles such as reinforcement, discriminative stimuli, motivating operations, extinction, and basic schedules of reinforcement will be discussed and applied in laboratory work conducted with non-humans. Credit Hours: 3

BAT529 - Radical Behaviorism I This course will explore the primary tenets of the system of psychology known as radical behaviorism. Canonical papers of B. F. Skinner and other scholars involved in the theory and philosophy of radical behaviorism will be read and discussed as well as critiques and interpretations thereof. Prerequisites: BAT 535, BAT 503, BAT 509A, and BAT 508 (concurrent enrollment allowed in BAT 508). Credit Hours: 3

BAT530 - Radical Behaviorism II This course will continue the exploration of the system of psychology known as radical behaviorism. Foci will include philosophical foundations, contrasts/comparisons with other systems of psychology, and the movement toward a synthesis of psychological approaches. Prerequisite: BAT 529. Credit Hours: 3

BAT535 - 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. Credit Hours: 3

BAT543 - 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. Credit Hours: 3

BAT545 - 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. Credit Hours: 3

BAT557A - 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. Credit Hours: 3

BAT557B - 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. Credit Hours: 3

BAT563 - 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. Credit Hours: 3

BAT567 - 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. Credit Hours: 3

BAT574 - 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. Credit Hours: 3

BAT575 - 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. Credit Hours: 3

BAT584 - Seminar in Behavior Analysis and Therapy Special topics and new developments in modifying human behavior. Special approval needed from the instructor. Credit Hours: 1-3

BAT591 - 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. Credit Hours: 1-18

BAT593 - 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. Credit Hours: 1-18

BAT594 - 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. Prerequisites: BAT 535, BAT 503, BAT 509A with grades of B or better. Credit Hours: 3

BAT595 - 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. Credit Hours: 1-9

BAT599 - Thesis Prerequisites: BAT 535, BAT 503, BAT 509A, and BAT 594 with grades of B or better. Special approval needed from the instructor. Credit Hours: 1-6

BAT601 - 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. Credit Hours: 1

Behavior Analysis and Therapy Faculty

Baires, Natalia, Clinical Assistant Professor, Online Program Director, BAT, Ph.D., Southern Illinois University Carbondale, 2020; 2020. Relational frame theory, acceptance and commitment training, cultural responsiveness for linguistically diverse individuals.

Boydston, Paige, Clinical Assistant Professor, BAT, Ph.D., Southern Illinois University Carbondale, 2020; 2021. Early intensive behavioral intervention, parent training, discrete trial teaching and rural and remote services for families impacted by autism and telehealth.

Hurtado-Parrado, Camilo, Assistant Professor, BAT, Ph.D., University of Manitoba, 2014; 2021. Human and nonhuman learning and behavioral processes.

McLean, Deija, Clinical Assistant Professor, BAT, Ph.D., University of Missouri, 2020; 2020. Ethics in BAT, Treatment of challenging behaviors, diagnostic assessment of Autism Spectrum Disorder, caregiver training of behavior reduction programs.

Redner, Ryan N., Associate Professor & Program Director, BAT, Ph.D., Western Michigan University, 2012; 2015. Tobacco regulatory science, cell phone use in the classroom, healthy eating and exercise, behavioral economics.

Sadler, Kate, Clinical Assistant Professor, BAT, Ph.D., University of Missouri, 2018; 2021. Practical and ethical application of behavior analysis practices.

Shawler, Lesley, Assistant Professor, BAT, Ph.D., Institute of Applied Behavior Endicott College, 2019; 2021. Assessment and treatment of challenging behavior and teaching verbal behavior to individuals with Autism and other neurodevelopmental disabilities.

Williams Awodeh, Natalie F., Clinical Assistant Professor, BAT, Ph.D., Ohio University, 2013; 2021. Cultural and linguistic inclusion in applied behavior analysis, employment disparities for African Americans with cognitive disabilities, and peer support for women of color with mental health concerns.

Emeriti Faculty

Austin, Gary F., Professor, Emeritus, Ph.D., Northwestern University, 1973; 1984.

Beck, Richard J., Associate Professor, Emeritus, Ph.D., University of Wisconsin, 1987; 1990.

Benshoff, John J., Professor, Emeritus, Ph.D., University of Northern Colorado, 1987; 1988.

Blache, Stephen E., Professor, Emeritus, Ph.D., The Ohio University - Athens, 1970; 1971.

Bordieri, James E., Professor, Emeritus, Ph.D., Illinois Institute of Technology, 1980; 1986.

Bryson, Seymour L., Professor, Emeritus, Ph.D., Southern Illinois University Carbondale, 1972; 1969.

Cuvo, Anthony J., Professor, Emeritus, Ph.D., University of Connecticut, 1973; 1973.

Davis, Paula K., Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1989; 1995.

Falvo, Donna, Professor, Emerita, Ph.D., Southern Illinois University Carbondale, 1978; 1974.

Greene, Brandon, Professor, Emeritus, Ph.D., Florida State University, 1979; 1979.

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

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

Rubin, Stanford E., Professor, Emeritus, Ed.D., University of Illinois, 1968; 1980.

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

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Southern Illinois University

Carbondale, IL 62901

Phone: (618) 453-2121

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.