

**4822. African Art.** 3 hours. The study of the aesthetics of art objects and artifacts from Sub-Saharan Africa and their relationship to the social, political, religious and economic factors that give rise to their cultural significance. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4823. Asian Art.** 3 hours. A survey of the art of India, China, and Japan from prehistoric to modern times, including architecture, sculpture, painting, ceramics and printmaking. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4824. Topics in Asian Art.** 3 hours. Selected topics in the arts of Asia. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

**4825. Topics in Islamic and/or Middle Eastern Art.** 3 hours. Selected topics in the arts of the Islamic and/or Middle Eastern cultures. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

**4840. History of Crafts.** 3 hours. Ceramics, metalwork, weaving and other crafts media from the Paleolithic era to the present. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4841. History of Furniture.** 3 hours. Basic furniture units in the Western World. Period interiors. Prerequisite(s): ART 1200, 2350, 2360 and 2430; must pass the interior design sophomore portfolio review. Not for art history credit. Not offered every term/semester.

**4842. History of Communication Design.** 3 hours. Provides economic, political, social and technological perspectives on the work that has been created and disseminated by designers of visual communications, particularly over the course of the last 125 years, in a manner that makes their endeavors relevant to the design world of today and to contemporary society. Students gain an understanding of the major movements, styles and figures in the world of visual communication design that have emerged around the world since the latter portion of the 19th century. Significant emphasis is placed on how and why a variety of decision-making processes have informed and influenced the discipline in theory and practice during this span of time, and on the impact that its past developments are having and might have on current trends. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4843. History of Photography.** 3 hours. Survey of the history of photography, including developments in photographic technologies, practices, theory and analysis. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4844. History of Prints.** 3 hours. Survey of the history of prints from the Renaissance to the 20th century. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

**4848. Art History Senior Seminar.** 3 hours. Introduction to research methodologies and practices of scholarship relevant to the study of a topic in art history. Delivered as a seminar consisting of assigned readings, class discussion, and oral and written presentations. Prerequisite(s): ART 1200, 2350 and 2360; AEAH 4800; 9 hours of advanced art history; must have taken the art history entrance exam and have degree audit on file; senior status within major.

**4940. Understanding Art Museums.** 3 hours. Explores the history, organization, functions and collections of art museums. Assignments in Dallas/Fort Worth museums required. Prerequisite(s): ART 1200, 2350 and 2360, or consent of instructor.

---

## Astronomy

see Physics

---

## Behavior Analysis

### *Behavior Analysis, BEHV*

#### **2110. Behavior Principles and Personal Relations.**

3 hours. Describes behavior principles that underlie social interactions among individuals. Identifies behavior patterns conducive to satisfying and socially productive interactions and patterns likely to be destructive to others as well as to oneself. Makes use of behavior principles to understand how behavior patterns change in relation to the behavior of others in the social environment. Students use behavior principles to understand the role of their own behavior in productive and in destructive interactions. May not be substituted for any course required for major.

**2300. Behavior Principles I.** 3 hours. Introduction to applied behavior analysis. Behavior is examined as a part of the natural world, with primary focus on principles describing relations between operant behavior and its consequences. The principles of reinforcement, extinction, differential reinforcement and punishment are related to naturally occurring events and to experimental and intervention procedures. Basic measurement concepts introduced. *Satisfies the Social and Behavioral Sciences requirement of the University Core Curriculum.*

**2700. Behavior Principles II.** 3 hours. Behavioral principles describing relations between behavior and antecedents. Principles of operant stimulus control, discrimination and generalization, stimulus equivalence and establishing operations are related to laboratory procedures, to occurrence in everyday life and to intervention techniques. Principles of respondent (Pavlovian) conditioning related to laboratory procedures, everyday occurrence and their applications in behavioral interventions. Prerequisite(s): BEHV 2300 or 3150.

**3000. Applied Behavior Analysis and Autism I: Basic Techniques.** 4 hours. (3;1) Describes basic treatment techniques involved in behavioral treatment of children with autism. Students learn behavioral characteristics and etiology of autism and the history of applied behavior analysis in autism, and complete extensive supervised practical training. Prerequisite(s): BEHV 2300 or 3150.

**3150. Basic Behavior Principles.** 3 hours. Basic principles underlying behavior change in all fields; experimental underpinnings of science of behavior; focus on the relations among events that account for the acquisition and maintenance of individual behavior.

**3200. Science, Skepticism and Weird Behavior.** 3 hours. Utilizes scientific critical thinking to examine the causes of various strange phenomena, including alleged paranormal events, magic, superstition, mystery illnesses, bogus therapies and pseudoscience. Seeks to explain why people believe and do weird things. Provides training in basic scientific thinking about causal explanations and in understanding the scientific method as applied to interesting everyday phenomena.

**3440. Data Collection and Analysis.** 4 hours. (3;1) Methods of observing and measuring behavior and for analyzing behavioral data. Topics include dimensional properties of behavior, techniques of direct observation, methods of summarizing data, preparing graphs and analyzing graphed data. Introduces single-subject experimental designs including reversal, multiple baseline and multiple treatment designs. Prerequisite(s): BEHV 2300 or 3150, and 2700.

**3550. Behavior Change Techniques.** 4 hours. (3;1) Designing and implementing behavior change techniques. Topics include shaping, discrimination training, instructional and imitation training, and differential reinforcement. Behavior change techniques will be applied in such settings as classrooms, institutions, workshops and group homes and their effectiveness evaluated. Prerequisite(s): BEHV 2700.

**3660. Survey of Applied Behavior Analysis Literature.** 3 hours. Comprehensive survey of recent literature in multiple areas of application. Topics include applications in classroom behavior, skill acquisition, developmental disabilities, rehabilitation, interpersonal behavior, autism, community behaviors, family interactions, organizational behavior management and others. Prerequisite(s): BEHV 2300 or 3150.

**3770. Building Skills with Behavior Technology.** 4 hours. (3;1) Acquisition of complex repertoires for persons with developmental disabilities. Topics include selection of target behaviors, planning intervention procedures, evaluating results and ensuring maintenance of skills. Ethical and aesthetic considerations. Prerequisite(s): BEHV 3440 or consent of instructor.

**4000. Applied Behavior Analysis and Autism II: Program Development.** 4 hours. (3;1) Describes curricular, research and development issues involved in the scientist-practitioner model of applied behavior analysis interventions for young children with autism. Students design data collection systems, identify variables affecting behavior, and evaluate program efficacy. Students conduct upper-level program design and implementation, and complete extensive practical training. Prerequisite(s): BEHV 3000.

**4010. Functional Analysis and Problem Behavior.** 4 hours. (3;1) Introduction to function-based treatment approaches for problem behavior. Topics include anecdotal assessment, descriptive assessment, experimental analysis and various courses of treatment derived from functional assessment, with emphasis on the importance of consistency between procedures and the functional properties of problem behavior. Prerequisite(s): BEHV 3440 or consent of instructor.

**4310. Behavior Principles and Self-Management.** 3 hours. Uses behavior principles to understand and deal with problems in self-management. Self-assessment of goals, options and necessary trade-offs is followed by a behavior analysis of the nature of the self-management problem. Each student applies behavioral principles to develop and implement an individual self-management plan to reach a particular short-term goal. Prerequisite(s): BEHV 2300 or 3150.

**4400. Organizational Behavior Management.** 3 hours. Describes theory and techniques of applying behavior analysis principles to solve performance problems and design more effective workplaces. Focuses on pinpointing critical work behaviors, measuring work performance, analyzing the contingencies responsible for the performance, implementing and evaluating intervention programs involving stimulus control, feedback and reinforcement

systems to improve employee performance. Discusses organizational behavior management as a philosophy and as a tool for improving job performance in any organization.

**4750. Capstone Course in Applied Behavior Analysis.** 3 hours. Integrates and extends basic behavioral principles and behavior change procedures to address professional issues including behavioral assessment and goal development, selection of appropriate behavior change procedures, ethical and legal responsibilities, and technology transfer. Prepares students for professional certification in applied behavior analysis. Prerequisite(s): senior status and a minimum of 18 hours in behavior analysis.

**4800. Topics in Behavioral Applications.** 3 hours. Focus is on the complex relations between behavior and the environment in specific kinds of settings. Topics include applications in institutional settings and work environments in public and private sectors, business and industry. May be repeated for credit as topics vary. Prerequisite(s): BEHV 2300 or 3150.

**4900. Special Problems.** 1–3 hours. Prerequisite(s): consent of instructor.

**4951. Honors College Capstone Thesis.** 3 hours. Major research project prepared by the student under the supervision of a faculty member and presented in standard thesis format. An oral defense is required of each student for successful completion of the thesis. Prerequisite(s): completion of at least 6 hours in honors courses; completion of at least 12 hours in the major department in which the thesis is prepared; approval of the department chair and the dean of the school or college in which the thesis is prepared; approval of the dean of the Honors College. May be substituted for HNRS 4000.

---

## Bilingual and English as a Second Language

see Teacher Education and Administration

---

## Biochemistry

see Biological Sciences

---

## Biological Sciences

### *Biochemistry, BIOC*

#### **2900-2910. Introduction to Biochemical Research.**

1–3 hours each. Individualized laboratory instruction. Students may begin training on laboratory research techniques. Prerequisite(s): CHEM 1430 (may be taken concurrently) and consent of instructor. For elective credit only; may not be substituted for required chemistry courses.

**3621. Elementary Biochemistry.** 3 hours. Chemistry of biomolecules; amino acids, proteins, enzymes, carbohydrates, lipids, nucleotides, nucleic acids, vitamins and coenzymes; metabolism of biomolecules, generation and utilization of energy. Prerequisite(s): one term/semester of organic chemistry. Counts toward chemistry minor for biology majors when taken concurrently with BIOC 3622. For students needing one term/semester biochemistry course; admission to the biology/biochemistry major, or consent of department. May not be used in the degree if credit is earned in BIOC 4540 or 4550.