

4060. Therapeutic Activity Intervention and Aging. 3 hours. Develops an awareness of the physiological, psychological, economic and sociological processes of aging that affect recreation and leisure behavior and involvement patterns. Emphasis is on age-related illness, disease, and disability and therapeutic activity intervention. Prerequisite(s): AGER/ SOCI 4550 or equivalent recommended. (Same as RECR 4060.)

4250. Topics in Gerontology. 1-3 hours. In-depth analysis and discussion of selected significant subjects in aging. May be repeated for credit as topics vary.

4450. The Family in Later Life. 3 hours. Later stages in the family life cycle are surveyed with emphasis on changing family composition, role transitions and support systems. Prerequisite(s): SOCI 1510 or equivalent. (Same as SOCI 4450.)

4500. Long-Term Care Case Management with Older Adults. 3 hours. This practitioner-oriented course focuses on the foundations of case/care management and the care management process as practiced with impaired elderly clients and their family caregivers. Topics include older client intake and assessment, establishing goals and a plan of care, coordinating and linking services and resources, and managing and monitoring care. Situations commonly encountered with at-risk elders are examined using protocols.

4550. Sociology of Aging. 3 hours. Twenty-somethings, generation Xers, baby boomers—all will be senior citizens sooner or later. Their sex, race/ethnicity and social class will affect their experience of aging. Course explores issues related to successful aging, including what young adults should be doing now to ensure that they have happy, healthy, wealthy and creative golden years. Prerequisite(s): SOCI 1510 or equivalent. (Same as SOCI 4550.)

4560. Minority Aging. 3 hours. Introduction to the study of minority elderly in the United States, including their physical and mental health, income security, family relations, and service issues. Course content focuses on African-American, Asian/Pacific Islander, Hispanic and Native American elders. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

4700. Women in Later Life. 3 hours. Examination of the social, psychological and economic issues facing older women from historical, current and futuristic viewpoints. The course identifies historical forces that have shaped the status of older women, explores major issues of importance to older women today, and identifies issues and probable responses that will affect older women in the future.

4750. Sexuality and Aging. 3 hours. One of the most pervasive myths of aging is that older people are non-sexual. This course challenges popular stereotypes and examines sexual attitudes, activity and behavior as people age. In addition to common social beliefs and attitudes that may affect the opportunity for sexual expression among older adults, biological changes and sexual response are explored, as are other aspects of intimacy important to aging individuals.

4780. Aging Programs and Services. 3 hours. Introduction to the history of social policy in aging; derivations and directions of public policy, interrelationships of agencies; discussion of selected programs and services for the aged.

4800. The Social Context of Aging: Global Perspectives. 3 hours. Analysis of the aging experience in a global context, historically and currently. Topics include perceptions of aging, definition of need in old age, and models for delivering health and social services to older persons. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

4840-4850. Studies in Aging Field Practicum. 3 hours each. Field practicum (12 hours per week) in an agency or institution delivering services to the elderly; 170 clock hours in the field. Prerequisite(s): senior standing in the applied gerontology program and completion of AGER 3480, 4550 and 4780.

4870. Social Research and Practice. 3 hours. Principles and procedures; sources of data, techniques of collection and analysis, and statistical description. Prerequisite(s): junior or senior standing. Required of all sociology majors. (Same as SOCI 4870.)

4880. Quantitative Methods of Social Research. 3 hours. Role of quantitative methods in social research; application of quantitative techniques and procedures to social data, statistical inference; data processing. Prerequisite(s): AGER/ SOCI 4870 or equivalent. (Same as SOCI 4880 and SOWK 4880.)

4900. Special Problems. 1-3 hours.

4960. Studies in Aging Institute. 1-3 hours. Selected topics are developed in an institute format and are regularly scheduled. May be repeated for credit as topics vary.

Applied Private Music

see Music

Applied Technology, Training and Development

see Technology and Cognition

Arabic

see Foreign Languages and Literatures

Archaeology

see Geography

Art

Art, ART

1080. Introduction to Communication Design. 3 hours. Overview of the communication design profession. Terminology, design planning, creative methodological processes, human communication, metaphorical thinking, Gestalt, form analysis, semiotics, ethics and creative teamwork. Not offered every term/semester.

1140. Fashion Design: Introduction to Industrial Sewing Techniques. 3 hours. (2;4) Introduction to machinery and construction techniques used in the mass production of apparel. Student projects focus on unlined garment construction.

1200. Art Appreciation. 3 hours. Art elements and principles applied to forms of visual expression for art majors.

1300 (ARTS 1301). Art Appreciation For Non-Art Majors. 3 hours. Introduction to basic concepts and vocabularies of the visual arts worldwide, designed to expand aesthetic growth and involvement with the visual world. For non-art majors only. *Satisfies the Visual and Performing Arts requirement of the University Core Curriculum.*

1301. Honors Art Appreciation. 3 hours. History and analysis of Western art with reference to non-Western cultures. Prerequisite(s): acceptance into the University Honors Program. May be substituted for ART 1200 or 1300.

1330. Introduction to Interior Design. 3 hours. Basic understanding of concepts, principles and elements as they relate to the interior design profession.

1340. Drawing for Interior Design. 3 hours. (2;4) Introduction to drafting equipment, mechanical drawing, architectural graphics and lettering. Emphasis on measured three-dimensional space for interior presentation using one- and two-point perspective theory. Prerequisite(s): ART 1200, 1330, 1440, 1450, 1500 and 1510; must pass the interior design entry portfolio review.

1440 (ARTS 1311). Design I. 3 hours. (1;4) Combination of lecture and studio in a structured approach to two-dimensional design, incorporating theory, concepts/terminology (point/line, shape, value, texture, color, space) and problem-solving techniques. Students are required to apply concepts and terminology both visually and verbally. Concurrent enrollment in lecture/laboratory components required.

1450 (ARTS 1312). Design II. 3 hours. (1;4) Combination of lecture and studio in a structured approach to three-dimensional design, incorporating theory, concepts/terminology (relief, free standing and linear forms; effects of light/color on three-dimensional forms) and problem-solving techniques. Students are required to apply concepts and terminology both visually and verbally. Prerequisite(s): ART 1440. Concurrent enrollment in lecture/laboratory components required.

1500 (ARTS 1316). Drawing I. 3 hours. (1;4) Development of drawing skills based on art elements and concepts. Concurrent enrollment in lecture/laboratory components required.

1510 (ARTS 1317). Drawing II. 3 hours. (1;4) Further development of drawing skills. Prerequisite(s): ART 1500. Concurrent enrollment in lecture/laboratory components required.

2000. Introduction to Fashion Design. 3 hours. An overview of fashion as art and as an industry, including manufacturing processes, terminology and line organization. Principles and elements of design as applied to fashion. Not offered every term/semester.

2080. Communication Design: Typography. 3 hours. (2;4) Basic typography terminology, tools and materials. Copyfitting, development of hand skills and professional attitudes. Prerequisite(s): ART 1200, 1440, 1450, 1500 and 1510; acceptance into the communication design program through the entry portfolio review. Not offered every term/semester.

2082. Communication Design: Color Theory, Rendering and Production Techniques for Advertising. 3 hours. (2;4) Application of color theory in advertising. Rendering techniques, tools and materials with emphasis on marker rendering. Traditional production techniques and terminology. Prerequisite(s): ART 1200, 1440, 1450, 1500, 1510; acceptance into the communication design program

through the entry portfolio review; may be concurrently enrolled in ART 2080 or 2084. Not offered every term/semester.

2084. Communication Design: Graphic Design. 3 hours. (2;4) Historical context and career opportunities. Emphasis on the design of corporate identity, stationery ensemble and collateral pieces. Passing mid-point portfolio review required. Prerequisite(s): ART 1080, 1200, 1440, 1450, 1500, 1510, 2080; concurrent or prior enrollment in ART 2082 required. Not offered every term/semester.

2100 (ARTS 2323). Beginning Figure Drawing. 3 hours. (2;4) Visual observation of the figure and interpretation through various graphic techniques. Prerequisite(s): ART 1500 and 1510.

2120. Fashion Design I. 3 hours. (2;4) Introduction to basic flat patternmaking techniques. Development of bodice, skirt and sleeve variations. Construction of muslin samples. Prerequisite(s): ART 1140, 1510 or consent of instructor. Not offered every term/semester.

2125. Fashion Drawing I. 3 hours. (2;4) Drawing the fashion figure from the live model. Various media. Concentration on developing a personal style and proper presentation of designs for industry. Prerequisite(s): ART 1510.

2130. Fashion Design II. 3 hours. (2;4) Intermediate flat patternmaking. Development of pant, intermediate bodice, skirt, sleeve and collar variations. Construction of muslin samples. Prerequisite(s): ART 2120. Not offered every term/semester.

2140. Fashion Design: Advanced Industrial Sewing Techniques. 3 hours. (2;4) Advanced construction methods; professional techniques of garment construction utilizing modern industrial equipment; tailoring and finishing. Prerequisite(s): ART 1140 or consent of instructor. Not offered every term/semester.

2240. Introduction to Fibers. 3 hours. (2;4) Introduction to two-dimensional and three-dimensional techniques in fibers using mixed media, pigments and dye. Prerequisite(s): ART 1440 and 1450.

2300-2310. Beginning Painting. 3 hours each. (2;4) Introduction to painting concepts, methods and techniques.

2300 (ARTS 2316). Painting on canvas and other surfaces. Prerequisite(s): ART 1440, 1450, 1500 and 1510.

2310 (ARTS 2366). Watercolor painting on wet and dry papers. Prerequisite(s): ART 1440, 1450, 1500 and 1510.

2350 (ARTS 1303). Art History Survey I. 3 hours. Introduction to the development of Middle Eastern and European art forms from the earliest prehistoric cave paintings through the Gothic Cathedrals of the late Middle Ages. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

2360 (ARTS 1304). Art History Survey II. 3 hours. Art from the 14th century to the present in Europe and America. *Satisfies the Visual and Performing Arts requirement of the University Core Curriculum.*

2430. Interior Design: Space Planning I. 3 hours. (2;4) An introduction to space planning; emphasis on interior space, lighting, fabrics and color as applied to interior design. Prerequisite(s): ART 1200, 1330, 1340, 1440, 1450, 1500, 1510 and 2350; must pass the interior design entry portfolio review.

2440. Interior Design: Presentation Techniques. 3 hours. (2;4) Rendering methods; design board layout; graphics. Prerequisite(s): ART 1340 and 2430; must pass the interior design sophomore portfolio review.

2650. Black and White Photography I. 3 hours. (2;4) A beginning course providing a combination of lecture and studio in a structured approach to the study of cameras, materials, techniques and darkroom procedures. Prerequisite(s): ART 1440 and 1450; or consent of instructor. Concurrent enrollment in lecture and laboratory required.

2655. Black and White Photography II. 3 hours. (2;4) Emphasis on advanced exposure and development controls of the negative and print, photographic chemistry and large-format camera techniques. Prerequisite(s): ART 2650.

2700 (ARTS 2346). Beginning Ceramics. 3 hours. (2;4) Introduction to hand-building and wheel-throwing techniques; decorating and glazing wares. Prerequisite(s): ART 1440 and 1450.

2750. Sculpture I. 3 hours. (2;4) Creation of original forms in clay, wood or metal; mold making, casting, construction and direct carving. Prerequisite(s): ART 1450 and 2100.

2820 (ARTS 2341). Metalsmithing and Jewelry I. 3 hours. (2;4) Design, construction and forming using basic techniques. Prerequisite(s): ART 1440 and 1450.

2900-2910. Special Problems. 1-3 hours each. Prerequisite(s): consent of instructor.

2920. Introduction to Printmaking Techniques. 3 hours. (0;6) Survey of traditional and non-traditional printmaking techniques, introducing students to a variety of basic printmaking processes including the fundamentals of paper, inks, presses, printing and editioning. Prerequisite(s): ART 1440, 1450, 1500 and 1510.

2950. Fibers: Weaving I. 3 hours. (2;4) Making warps and threading looms; weaving on simple hand looms, analyzing patterns and design in color and texture. Prerequisite(s): ART 1440 and 1450.

3000. Intermediate Painting. 3 hours. (2;4) Studio work in various media combined with a general review of contemporary painting theories. Prerequisite(s): ART 2100, 2300, 2310, 2350 and 2360. May be repeated for credit. For drawing and painting majors, 3 hours required from ART 3000, 3817, 3818, or 3819, with mid-point portfolio review administered at the end of second course.

3080. Communication Design: Advertising Design. 3 hours. (2;4) Introduction to advertising campaigns. Research, conceptual development, creative writing, implementation and presentation. Prerequisite(s): ART 2082, 2084 and passing mid-point portfolio review. Not offered every term/semester.

3082. Communication Design: Three-Dimensional Graphic Design. 3 hours. (2;4) Packaging, point-of-sale, environmental and/or exhibition design. Prerequisite(s): ART 2084 and passing mid-point portfolio review. Not offered every term/semester.

3100. Intermediate Figure Drawing. 3 hours. (2;4) Human figure in compositions using drawing and painting media. Prerequisite(s): ART 2100.

3101. Intermediate Drawing Studio. 3 hours. (0;6) Explores themes and issues of drawing using a variety of approaches and media. Classroom assignments and self-directed projects may deal with observation, invention, narrative, and/or conceptual approaches. This class will not replace ART 3100, but can be used as an elective. Prerequisite(s): ART 2100.

3110. Computers in Fashion: PDS. 3 hours. (2;4) Practical use of computers in development of patterns, grading and marking for production. Prerequisite(s): ART 2120, 2130.

3120. Fashion Design III. 3 hours. (2;4) Advanced patternmaking projects using draped and flat processes. Design development. Prerequisite(s): ART 2125, 2130 and SMHM 2650.

3130. Fashion Design IV. 3 hours. (2;4) Category design and group development. Industry team and CAD projects. Prerequisite(s): ART 2130, 3110 and 3120.

3140. History of Fashion to 1865. 3 hours. Examination of fashion history through western culture from early civilization through 1865. Emphasis on research and critical thinking. Prerequisite(s): ART 2130. Not offered every term/semester.

3150. History of Twentieth-Century Fashion. 3 hours. In-depth examination of significant 20th-century designers. Development of couture in fashion and related art trends. Texas Fashion Collection used as a major resource. Prerequisite(s): ART 2130 and 3140. Not offered every term/semester.

3161. Fashion Drawing II. 3 hours. (2;4) Further development of illustration skills. Various media. Presentation techniques for professional portfolio. Prerequisite(s): ART 3160. Not offered every term/semester.

3170. Computer Applications in the Visual Arts. 3 hours. (2;4) Visual, conceptual and practical use of computers in art and design. Problem solving using computer graphics systems to generate images. Prerequisite(s): ART 1440, 1450, 1500 and 1510, or consent of instructor.

3190. Fashion Accessories. 3 hours. (2;4) Exploration of design process, product development, market research and production of fashion accessories. Prerequisite(s): ART 1440, 1450.

3240. Fibers: Screen Printing. 3 hours. (2;4) Introduction to a wide range of screen printing processes and techniques. Prerequisite(s): ART 1440 and 1450.

3310. Interior Design: Space Planning II. 3 hours. (2;4) Architectural elements of residential interiors — wall and floor space, reflected ceiling plans, lighting, surface materials and treatments; furnishing interior spaces. Prerequisite(s): ART 2430; must pass the interior design sophomore portfolio review.

3322. Interior Design: Space Planning III. 3 hours. (2;4) Residential interiors, developed floor plans, reflected ceiling plans, elevations and details including schedules and furniture specifications. Prerequisite(s): ART 3310 and 3340.

3330. Twentieth-Century Architecture and Interiors. 3 hours. Contemporary theory and form in architecture and interior design. Prerequisite(s): ART 1200, 2350, 2360 and 2430; must pass the interior design sophomore portfolio review. Not offered every term/semester.

3340. Interior Design: AutoCAD. 3 hours. (2;4) Basic AutoCAD software used in drafting and design applications. Software control for the production of industry standard drawings for both design presentation and construction documentation. Prerequisite(s): ART 1340 and 2430.

3370. Topics in Interior Design. 3 hours. Research on selected topics or projects in interior design. Course includes fieldtrips and classroom lectures. Prerequisite(s): consent of instructor. May be repeated for credit as topics vary.

3510. Interior Design: Research in 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.

- 3540. Interior Design: Construction Detailing.** 3 hours. (2;4) Introduction to methods and materials of basic construction techniques for interior design. Emphasis on detailing and specification for interior products and finishes. Prerequisite(s): ART 2440, 3310 and 3340.
- 3560. Interior Design: Building Systems.** 3 hours. Study of building systems, including lighting, plumbing, HVAC, fire detection/suppression and acoustics. Special emphasis placed on lighting technology, design and specifications. Prerequisite(s): ART 2440.
- 3600. Color Photography.** 3 hours. (2;4) Fundamentals of exposure and development of color transparencies and color negative materials with an introduction to printing both. Prerequisite(s): ART 2650 and 2655; selection through the entry review process.
- 3700. Intermediate Ceramics.** 3 hours. (2;4) Development of wheel-throwing and hand-building techniques. Clay body formulation, glaze mixing, firing theory and practice. Prerequisite(s): ART 2700.
- 3750. Sculpture II.** 3 hours. (2;4) All aspects of three-dimensional form. Prerequisite(s): ART 1450, 2100 and 2750.
- 3800. Children and Art.** 3 hours. (2;4) An exploration of the elements and principles of art; experimentation with a variety of art media as related to the theories of creative development and an appreciation of a variety of visual art forms. Concurrent enrollment in lecture/lab component required. Satisfies fine arts elective for elementary education majors.
- 3817. Intermediate Watercolor.** 3 hours. (2;4) Conceptual development through transparent paint; work in non-transparent aqua-based media on paper surfaces; historical survey of watercolor. Prerequisite(s): ART 2310.
- 3818. Figure Painting I.** 3 hours. (0;6) Painting the human figure from life. Topics to be explored include the craft of painting, strategies of representation, color and light, psychological factors, and narrative. Prerequisite(s): ART 2100, 2300, 2310 and 3100.
- 3819. Hybrid Forms.** 3 hours. (2;4) Introduction to the theory and practice of non-traditional art media. Lecture and studio with emphasis in studio. Prerequisite(s): junior standing in drawing and painting, sculpture, photography or printmaking.
- 3850. Visual Art Studies: Materials and Processes.** 3 hours. (2;4) An exploration of creative development in relationship to basic art materials and processes. To be taken concurrently with ART 3855.
- 3855. Visual Art Studies: Elementary Art Curriculum and Assessment.** 3 hours. Child development theories; curriculum content development and implementation; teaching strategies. To be taken concurrently with ART 3850.
- 3900. Printmaking: Etching.** 3 hours. (2;4) Introduction to concepts and techniques of intaglio printmaking, including various grounds, aquatint, line etching and stage biting. Black and white and color. Prerequisite(s): ART 2920.
- 3910. Metalsmithing and Jewelry II.** 3 hours. (2;4) Design in metal using intermediate processes. Prerequisite(s): ART 2820.
- 3912. Metalsmithing and Jewelry III.** 3 hours. (2;4) Design in metal using advanced processes. Prerequisite(s): ART 2820, 3910. Mid-point review administered during the term/semester.
- 3920. Printmaking: Screen Printing.** 3 hours. (2;4) Introduction to concepts and techniques of water-based screen printing, including hand-drawn stencils and photographic processes. Prerequisite(s): ART 2920.
- 3950. Printmaking: Lithography.** 3 hours. (2;4) Introduction to concepts and techniques of lithography, including crayon, washes and photo techniques. Black and white and color. Prerequisite(s): ART 2920.
- 3960. Fibers: Weaving II.** 3 hours. (2;4) Introduction to special weaving applications, such as two harness tapestry and rug weaving techniques, ikat dye techniques, as well as a variety of off-loom techniques. Prerequisite(s): ART 1440, 1450, 2950.
- 3965. Fibers: Alternative Processes.** 3 hours. (2;4) An introduction to the study of art processes that create both two-dimensional and three-dimensional "off-loom" structures. Prerequisite(s): ART 1200, 1440, 1450, 1500, 1510.
- 3970. Printmaking: Relief Print and Monotype.** 3 hours. (2;4) Introduction to concepts and techniques of relief printmaking and monotype. Carving and printing wood and linoleum relief blocks and various monotype techniques. Black and white and color. Prerequisite(s): ART 2920.
- 4070. Topics in Art History.** 3 hours. A study of topics in the history of art. Prerequisite(s): ART 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.
- 4072. Seminar in Art History.** 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): junior or senior standing in the BA or BFA art history program. Not offered every term/semester.
- 4082. Communication Design: Publication Design.** 3 hours. (2;4) Publication design emphasizing layouts, grids and other organizational structures for multi-page design. Prerequisite(s): ART 3080 and 3170. Not offered every term/semester.
- 4088. Communication Design: Illustration.** 3 hours. (2;4) Trends and styles of illustration. Emphasis on work with an art director on projects geared to editorial, corporate and agency work. Special attention to specifications, deadlines, reproduction requirements and professional attitudes. Prerequisite(s): ART 2100 and 3 hours of painting or printmaking.
- 4091. Communication Design: Advanced Graphic Design.** 3 hours. (2;4) Advanced development of graphic design skills. Prerequisite(s): ART 4082. Not offered every term/semester.
- 4092. Communication Design: Advanced Art Direction.** 3 hours. (2;4) Advanced development of art direction skills. Prerequisite(s): ART 4082. Not offered every term/semester.
- 4093. Communication Design: Final Graphic Design Portfolio Preparation.** 3 hours. (2;4) Final graphic design portfolio presentation and retrospective evaluation. Passing senior portfolio review required. Prerequisite(s): ART 3080, 3082, 3170, 4082 and 4091. Graduating senior status suggested. Not offered every term/semester.
- 4094. Communication Design: Final Art Direction Portfolio Preparation.** 3 hours. (2;4) Final advertising campaign portfolio presentation and retrospective evaluation. Passing senior portfolio review required. Prerequisite(s): ART 3080, 3082, 3170, 4082 and 4092; graduating senior status suggested. Not offered every term/semester.
- 4120. Art in New York.** 3 hours. Visits to major museums, galleries, showrooms and design studios. Research on selected art topics or projects. Course includes field trip and classroom lectures. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4130. Renaissance Art in Italy. 3 hours. Art in Italy from the 13th through 16th centuries. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4150. Topics in Native American Art. 3 hours. Selected topics in the arts of Native North America from pre-contact times to the present. Prerequisite(s): ART 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

4160. Topics in Latin American Art. 3 hours. Topics in Latin American art, ranging from the 16th century to 1945. Prerequisite(s): ART 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

4170. Computers in Art: Three-Dimensional Modeling and Animation. 3 hours. (2;4) Exploration of three-dimensional modeling and computer animation systems to develop time-based art work, broadcast type graphics, and prototypes for three-dimensional art works. Students develop an understanding of three-dimensional vector space, rendering and imaging techniques, as well as choreography of computer animation. Prerequisite(s): ART 3170.

4172. Photography: Digital Photoimaging. 3 hours. (2;4) A comprehensive exploration of computer technology for use in commercial and fine art studio photography; influence of technology on the aesthetic philosophies and working methods of photographers. Prerequisite(s): ART 2650, 2655, 3170 and 3600; selection into the photography program through the mid-point review process.

4175. Multi-Media for Artists and Designers. 3 hours. (2;4) An overview of the use of the computer as a communication medium. Exposure to multi-media authoring, interactivity and Internet web design. Prerequisite(s): ART 1440, 1450, 1500, 1510, 3170 or consent of instructor.

4176. Art and Design of the Computer Game. 3 hours. (2;4) Design and creation of artwork for use in computer gaming, including portfolio production, presentation, visualization and project planning. Emphasis on drawing, character development, scenic and interface design. Prerequisite(s): ART 3170.

4180. Seventeenth-Century Art. 3 hours. Art in Western Europe. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4190. History of Prints. 3 hours. Graphic arts since the Renaissance. Prerequisite(s): ART 2360 or consent of instructor.

4240. Art of Ancient Greece. 3 hours. Art of Ancient Greece and the Aegean from *circa* 3000 BC to the 1st century BC. Prerequisite(s): ART 2350.

4250. Art of Ancient Rome. 3 hours. Art of Ancient Rome during the Republican and Imperial eras, from 753 BC to 476 AD. Prerequisite(s): ART 2350.

4260. 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 2350 and 2360, or consent of instructor.

4305. Methodologies in the History of Art and Visual Culture. 3 hours. Survey of major contributions to the development and practice of art history methodologies and visual arts studies (including theory and criticism) from the 16th century to the present. Taught as a seminar, with emphasis on research (bibliographies, papers) as well as class discussion based on weekly assigned readings and presentations. Prerequisite(s): required of art history majors (BA and BFA). Prerequisites for art history majors: ART 1200, 2350 and 2360.

4310. History of Crafts. 3 hours. Ceramics, metalwork, weaving and other crafts media from the Paleolithic era to the present. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4320. 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 2350 and 2360, or consent of instructor.

4330. Northern Renaissance Art. 3 hours. Art in Europe north of Italy, 14th through 16th centuries. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4340. American Art. 3 hours. Art from the 15th century to 1945 with an emphasis on new perspectives and current scholarship. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4342. Topics in American Art. 3 hours. Selected topics in American art from the 15th century to the present, with emphasis on new perspectives and current scholarship. Prerequisite(s): ART 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

4350. Understanding Art Museums. 3 hours. European and American art museums; history, organization, functions and collections. Assignments in Dallas/Fort Worth museums. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4360. Nineteenth-Century Art. 3 hours. Art in Europe and America. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4372. Modernism and the Visual Arts 1890-1945. 3 hours. Explores the relationship of works of "modern" visual art, including their development, interpretation, and use, as well as historical, social and cultural conditions of "modernity" in Europe and North and South America, ca. 1890-1945.

4374. Postmodernism and the Visual Arts 1945-Present. 3 hours. Explores the relationship of postmodernism in the visual arts, including the development, interpretation, and use of postmodern works, as well as historical, social and cultural conditions of "postmodernity" globally, ca. 1945 to the present.

4376. History of Graphic Design. 3 hours. Survey of the history of graphic design, with emphasis on style and context. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4378. History of Photography. 3 hours. Survey of the history of photography, including developments in photographic technologies, practices, theory and analysis. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4380. Eighteenth-Century Art. 3 hours. Art in Western Europe. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4390. Pre-Columbian Art of Mesoamerica. 3 hours. Art and architecture of the Pre-Columbian cultures of Mesoamerica. Prerequisite(s): ART 2350 and 2360, or consent of instructor.

4391. Topics in Pre-Columbian Art. 3 hours. Selected topics in the Pre-Columbian art of the Americas. Prerequisite(s): ART 2350 and 2360, or consent of instructor. May be repeated for credit as topics vary.

4440. Fashion Design V. 3 hours. (2;4) Design patternwork and construction of garments. Emphasis on fit, professional construction methods, research and appropriateness for target market. Prerequisite(s): ART 3130. Not offered every term/semester.

4441. Fashion Design VI. 3 hours. (2;4) Design, patternwork and construction of senior collection in preparation for Artwear fashion show. Critical analysis of garments by a jury of industry professionals. Prerequisite(s): ART 4440. Concurrent enrollment in ART 4445 required. Not offered every term/semester.

4445. Fashion Design: Professional Practice. 3 hours. (2;4) Presentation boards, interview and job search techniques. Design portfolio development. Prerequisite(s): ART 4440. Concurrent enrollment in ART 4441 required.

4450. Professional Internship. 3-6 hours. In-training programs offered in cooperation with approved business and professional houses in communication design, fashion design, interior design and photography. Limited number of approved students. Students wishing credit must have instructor approve plan. Term reports required of students and employers. Prerequisite(s): interior design students must have completed ART 3322; communication design students must have completed ART 3080 and 3170. May be repeated for credit.

4550. Theories of Contemporary Art. 3 hours. Selected theoretical and critical issues in recent art. Prerequisite(s): ART 4374 or consent of instructor.

4570. Interdisciplinary Topics in Art. 3 hours. (0;0;3-6) Study of advanced art topics, incorporating content related to multiple art disciplines. Topics include advanced issues in art direction/photography; typographic issues for fine artists; and parallels in art, culture and dress. Prerequisite(s): consent of instructor. May be repeated for credit as topics vary.

4600. Alternate Photographic Processes. 3 hours. (2;4) Alternate processes in photography with emphasis on hand applied, non-silver photographic emulsions. Prerequisite(s): ART 2650, 2655 and 3600; selection into the photography program through the mid-point review process. Not offered every term/semester.

4610. Artist's Bookmaking. 3 hours. (2;4) Application of the concepts and techniques of bookmaking to create sequential works of art. Emphasis on developing ideas, materials, presentation and basic bookbinding techniques in one-of-a-kind and multiple books. Prerequisite(s): one 3000-level printmaking or photography course, or consent of instructor.

4650. Photography: Advanced Lighting Techniques. 3 hours. (2;4) Photographic lighting procedures and studio techniques. Completion of a portfolio of images is required. Prerequisite(s): ART 2650, 2655, and passing mid-point portfolio review.

4710. Medieval Art. 3 hours. Art from fall of the Roman Empire to late Gothic international style. Prerequisite(s): ART 2350 or consent of instructor.

4740. Interior Design: Professional Practice. 3 hours. Business and office practice, fees and commissions, preparing estimates, contracts, professional ethics and job opportunities. Student must pass senior portfolio review. Prerequisite(s): ART 4842.

4800. Art Studio. 3 hours. (0;6) Developing additional competence in special areas. Prerequisite(s): advanced standing and consent of instructor; specific studio courses may require additional prerequisites. All may be repeated for credit.

4801. Sculpture Studio.

4802. Advanced Painting Studio. Prerequisite(s): advanced standing and consent of instructor; ART 3100, ART 4372 or 4374; 3 hours from ART 3000; and 3 hours from ART 3000, 3817, 3818 or 3819. Students must have passed mid-point review in painting.

4803. Ceramics Studio.

4804. Drawing Studio. Prerequisite(s): advanced standing and consent of instructor; ART 3100, ART 4372 or 4374; 3 hours from ART 3000; and 3 hours from ART 3000, 3817, 3818 or 3819. Students must have passed mid-point review in painting.

4805. Printmaking Studio.

4806. Photography Studio.

4807. Communication Design Studio.

4808. Fashion Design Studio.

4810. Metalsmithing and Jewelry Studio.

4811. Fibers: Weaving Studio.

4812. Fibers: Fabric Design Studio.

4813. Computer Art Studio.

4817. Watercolor Studio. Prerequisite(s): ART 3100, 4372 or 4374; 3 hours from ART 3000 and 3 hours from 3000, 3817, 3818 or 3819. Students must have passed mid-point review in painting.

4818. Figure Painting Studio. Prerequisite(s): ART 3100, 4372 or 4374; 3 hours from ART 3000 and 3 hours from 3000, 3817, 3818 or 3819. Students must have passed mid-point review in painting.

4819. Advanced Hybrid Forms. Prerequisite(s): advanced standing in sculpture, photography, painting or printmaking; must have passed mid-point review.

4824. Topics in Studio Practice. 3 hours. (0;6) Variable topics course designed to explore concepts and processes in art making that go beyond the curricular parameters of traditional studio disciplines. Prerequisite(s): junior standing or consent of instructor. May be repeated for credit as topics vary.

4825. Professional Practices for the Studio Artist. 3 hours. Study of theoretical and practical aspects of succeeding as a practicing artist outside the academy. Survey of the protocols and common practices expected of the artist as a productive member of the business community wherein fine art is the commodity.

4830. Visual Art Studies: Technology in the Visual Arts. 3 hours. (2;4) Examination of how technology in the visual arts can enhance the acquisition and manipulation of knowledge and imagery. Focuses on legal, ethical and philosophical issues related to the use of technology and digital imagery in future careers and society. Apply search strategies. Create and modify solutions. Prerequisite(s): ART 3170, 3850 and 3855.

4842. Interior Design: Space Planning IV. 3 hours. (2;4) Design of public and non-residential spaces; systems furniture; ergonomics; lighting; building systems; and concept development. Preparation of design presentation boards and design development drawings. Prerequisite(s): ART 3322, 3340, 3540 and 3560.

4845. Visual Arts Studies: Criticism and Aesthetics in the Visual Arts. 3 hours. An examination of aesthetics in the visual arts through visual discrimination and critical thinking in relationship to historical and socio-political influences. Prerequisite(s): ART 2350, 2360, 3850 and 3855.

4850. Visual Art Studies: Reflective Studio Practice. 3 hours. (2;4) Practice and reflection in guiding the creative process to execution. Partial field experience included. Prerequisite(s): ART 3850, 3855; concurrent enrollment in ART 4855 required; concurrent or previous enrollment in ART 4830 and ART 4845 required.

4855. Visual Art Studies: Secondary Art Curriculum and Assessment. 3 hours. Preadolescent and adolescent creative development and theory applied to curriculum and assessment. Prerequisite(s): ART 3850, 3855; concurrent enrollment in ART 4850 required; concurrent or previous enrollment in ART 4830 and ART 4845 required.

4880. Interior Design: Space Planning V. 3 hours. (2;4) Application of comprehensive problem-solving techniques, including research, programming, concept development, space planning, code review, design, detailing and systems integration for a large commercial space. Prerequisite(s): ART 4842.

4900-4910. Special Problems. 1-3 hours each. Prerequisite(s): 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 and Human Behavior. 3 hours. Surveys field of behavior analysis. Examines human behavior as a natural phenomenon and examines human social institutions as the product of human behavior. Examines relations among reflexive and operant processes and provides examples of the analysis of complex cases.

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 multielement 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.