

**4600. Sociology of Mass Communication.** 3 hours.

Communication as a social process; patterns and institutions of mass communication; analysis of public opinion and propaganda; techniques of public opinion measurement. Prerequisite(s): SOCI 1510 or equivalent.

**4750. World Population Trends and Problems.** 3 hours.

Patterns of population growth; trends of fertility and mortality; migration; social and economic consequences of population change.

**4870. Social Research and Practice.** 3 hours. Principles and procedures; sources of data, techniques of collection and analysis, and statistical description. Prerequisite(s): advanced (junior or senior) standing. Required of all sociology majors. (Same as AGER 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): SOCI 4870 or equivalent. Required of all sociology majors. (Same as AGER 4880 and SOWK 4880.)

**4900-4910. Special Problems.** 1-3 hours each.

**4920. Cooperative Education in Sociology.** 1-3 hours. Supervised work in a job directly related to the student's major, professional field of study or career objective. Prerequisite(s): 12 hours credit in sociology; student must meet the employer's requirements and have consent of the division chair. May be repeated for credit.

**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.

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## Spanish

see Foreign Languages and Literatures

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## Special Education

see Educational Psychology

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## Speech and Hearing Sciences

**Speech and Hearing Sciences, SPHS**

**1040 (SGNL 1301 or 1401 or 1501). American Sign Language I.** 3 hours. Introduction to American Sign Language. Development of a beginning vocabulary of approximately 600-plus signs. Principles of linguistics and grammatical structures. History and current trends of ASL. Development of basic expressive skills using the manual alphabet, numbers and signs.

**1050 (SGNL 1302 or 1402 or 1502). American Sign Language II.** 3 hours. Expansion of basic vocabulary to approximately 1200-plus signs. Practical application of the linguistics and grammar of ASL. Introduction to deaf

culture. Development of expressive fluency in finger-spelling and signing. Primary focus upon receptive recognition and comprehension of simple situational conversations in ASL. Prerequisite(s): SPHS 1040 or equivalent.

**2040 (SGNL 2301). American Sign Language III.** 3 hours.

Expansion of vocabulary to approximately 1800-plus signs. Provide and receive natural conversational information in ASL in a variety of contextual settings. Exposure to deaf community events and interaction with deaf adults. Prerequisite(s): SPHS 1050 or equivalent.

**2050 (SGNL 2302). American Sign Language IV.** 3 hours.

Development of receptive and expressive vocabulary to approximately 2400-plus signs. Spontaneous utilization of ASL at conversational rates with fluent signers. Translation of ASL idiomatic expressions into English. Signing of English idioms into conceptually based ASL. The deaf perspective of bilingual and bi-cultural issues. Prerequisite(s): SPHS 2040 or equivalent.

**2900. Special Problems.** 1-3 hours.

**3020. Phonetics.** 3 hours. The international phonetic alphabet, basic articulatory acoustic phonetic principles, pronunciation rules, segmental and suprasegmental features, and in-class practice of phonetic transcription.

**3050. Introduction to Disorders of Articulation and Phonology.** 3 hours. Introduction to the nature, causes and characteristics of articulation and phonological disorders; principles of evaluation and remediation. Prerequisite(s): SPHS 3020 or equivalent.

**3070. Introduction to Audiology.** 3 hours. Overview of the field with emphasis on disorders of the auditory system and assessment of hearing sensitivity.

**3080. Nature of Communication Disorders.** 3 hours.

Nature and characteristics of speech-language and hearing impairments, including disorders prevalent in multicultural populations. Emphasis on recognition of symptoms, referral sources and suggested treatment programs.

**4010. Normal Speech and Language Development.**

3 hours. Normal language development from birth through adolescence, with consideration of current theories of acquisition, pertinent research and issues related to cultural diversity.

**4060. Clinical Practicum in Speech-Language Pathology and Audiology.** 3 hours. (1;0;2-3) Experience in Speech and Hearing Center. Prerequisite(s): 9 hours of major courses to include SPHS 3020. Students must have and maintain a GPA of no less than 3.0 for all departmental courses 3000-level and above, a degree audit on file in SPHS and/or departmental approval. Pass/no pass only.

**4065. Clinical Practicum in Speech-Language Pathology/Audiology, Level II.** 3 hours. (1;0;2-3) Students observe/participate in actual clinical service delivery to clients of the UNT Speech and Hearing Center, working with speech-language and audiology clinical faculty and graduate students. Prerequisite(s): SPHS 4060.

**4090. Basic Rehabilitative Audiology.** 3 hours. Methods of improving communication skills of the hearing impaired through speech and language training, amplification, speech reading, auditory training and counseling. Prerequisite(s): SPHS 3070 or equivalent.

**4120. Neurological Bases of Speech and Hearing.** 3 hours. Structure and function of the human nervous system as related to speech and language learning and usage. Emphasis on the reception and integration of sensation and the production of verbal and non-verbal responses. Prerequisite(s): SPHS 4130 or consent of instructor.

**4130. Anatomical Bases of Speech and Hearing.** 3 hours. Anatomy and physiology of the articulatory, phonatory, respiratory and auditory systems involved in speech production and perception.

**4140. Introduction to Language Disorders.** 3 hours. Nature, causes and characteristics of language disorders in children and adults. Principles of evaluation and remediation of language problems. Prerequisite(s): SPHS 4010 or equivalent.

**4150. Speech and Hearing Sciences.** 3 hours. Fundamental processes underlying the production and perception of speech, and the physical and psychological aspects of sound and their measurement. Prerequisite(s): SPHS 3020 or consent of instructor.

**4210. Clinical Methods in Speech-Language Pathology and Audiology.** 3 hours. Introduction to the processes involved in the assessment, diagnosis, and remediation of speech, language, and hearing disorders. Factors affecting these processes, such as service delivery, work settings, cultural and linguistic diversity, and public policy are addressed.

**4900. Special Problems.** 1–3 hours. Problem must be approved by department director.

**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.

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## Studio Art

### *Studio, ASTU*

**1417. Beginning Watercolor Painting for Non-Art Majors.** 3 hours. (0;6) Experimentation with watercolor painting principles, techniques, brush work and materials. Emphasis on problem solving, basic skills, composition and color.

**2050 (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.

**2120. Introduction to Fibers.** 3 hours. (2;4) Introduction to 2-dimensional and 3-dimensional techniques in fibers using mixed media, pigments and dye. Prerequisite(s): ART 1440 and 1450.

**2130. 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.

**2150 (ARTS 2341). Metalsmithing and Jewelry I.** 3 hours. (2;4) Design, construction and forming using basic techniques. Prerequisite(s): ART 1440 and 1450.

**2200 (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.

**2210. Painting I.** 3 hours. (2;4) Introduction to canvas painting methods, techniques and concepts. Prerequisite(s): ART 1440, 1450, 1500 and 1510.

**2215. Painting II.** 3 hours. (2;4) Further development of painting methods, techniques and concepts on canvas and other surfaces. Prerequisite(s): ASTU 2210.

**2250. Photography I.** 3 hours. (2;4) Beginning course providing a combination of lecture and studio with an introduction to photographic materials, techniques and digital cameras. Prerequisite(s): ART 1440 and 1450; or consent of instructor. Concurrent enrollment in lecture and laboratory required.

**2255. Photography II.** 3 hours. (2;4) Intermediate course providing instruction in use of digital and film cameras, digital and traditional photographic printing, and digital image management. Prerequisite(s): ASTU 2250.

**2300. 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. For visual arts studies majors only.

**2350. 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 ASTU 2200.

**2417 (ARTS 2366). Beginning Watercolor Painting.** Watercolor painting on wet and dry papers. Prerequisite(s): ART 1440, 1450, 1500 and 1510.

**2450. Introduction to New Media Studio.** 3 hours. (2;4) This skills-based course prepares students for image-making within the studio-based practice of creating artworks that integrate static digital imaging techniques with film, web, screen and works on paper, as well as other traditional studio practices. Studio research and iterative techniques for the purpose of concept development are introduced. Prerequisite(s): ART 1200, 1440, 1450, 1500 and 1510.

**2460. New Media Studio I.** 3 hours. (2;4) This studio-based course introduces students to a number of perspectives available to them as artists through the use of 2D time-based media processes with video effects, frame-based animation, and sound output to film, computer applications and the Internet. Prerequisite(s): ART 1200, 1440, 1450, 1500, 1510, and ASTU 2450; or consent of instructor.

**3050. 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): ASTU 2050.

**3120. Fibers: Screen Printing.** 3 hours. (2;4) Introduction to a wide range of screen printing processes and techniques. Prerequisite(s): ART 1440 and 1450.

**3130. 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): ASTU 2130.