

**5420. Introduction to Health Services Research.** 3 hours. Survey of the history of the development of the field of health services research; the interdisciplinary contributions of the disciplines of sociology, economics, anthropology, gerontology, political science, and public health to the field; and the use of survey research to collect information on health status and health services utilization.

**5450. Population and Society.** 3 hours. Evaluation of demographic concepts and methods for the study of society; comparative analysis of population characteristics in various stages of socioeconomic development. Prerequisite(s): consent of department or instructor.

**5470. Seminar on Juvenile Delinquency.** 3 hours. Problems of definition and measurement, etiological theories, processing of delinquents, and treatment and prevention. (Same as CJUS 5470.)

**5600. Advanced Criminological Theory.** 3 hours. An examination of the major theoretical explanations of criminality, the distribution of crime and the behavior of justice agencies. (Same as CJUS 5600.)

**5620. Seminar in Victimology.** 3 hours. The role of the victim in various types of crime, predictors and treatment of trauma, and the treatment of victims by criminal justice agencies. Political impact of the victims movement on the justice system and the distribution of victims across demographic and behavioral groups. (Same as CJUS 5620.)

**5650. Sociology of Education.** 3 hours. Interrelationships of schools and communities in American society; application of sociological concepts to the study of schools as social systems.

**5700. Seminar on Social Gerontology.** 3 hours. An analysis of sociological and sociopsychological approaches to the study of aging with emphasis on consideration of current research. Prerequisite(s): SOCI 4550 or consent of program chair. May be repeated for credit. (Same as AGER 5700.)

**5900-5910. Special Problems.** 1–3 hours each. Open to advanced students capable of doing independent research under the direction of the instructor. To be registered for only on recommendation of the instructor and with the consent of the department.

**5940. Sociology Internship.** 1–6 hours. Supervised work in an approved setting designed to maximize student's learning and application of professional skills. Prerequisite(s): consent of department or instructor.

**5950. Master's Thesis.** 3 or 6 hours. To be scheduled only with consent of department. 6 hours credit required. No credit assigned until thesis has been completed and filed with the graduate dean. Continuous enrollment required once work on thesis has begun. May be repeated for credit.

**6100. Seminar on Sociological Theory.** 3 hours. Selected topics in sociological theory. Prerequisite(s): a minimum of 18 hours in sociology, including at least one course in sociological theory, or equivalent. May be repeated for credit.

**6200. Seminar on Research Methods.** 3 hours. Theory and application of quantitative and non-quantitative methods to sociological data. Prerequisite(s): a minimum of 18 semester hours in sociology, including 4880 or equivalent. May be repeated for credit.

**6300. Seminar on the Life Cycle.** 3 hours. An intensive analysis of selected topics in the area of the family and life cycle. Prerequisite(s): a minimum of 18 hours in sociology, including 6 hours in the area of family, or equivalent. May be repeated for credit.

**6400. Seminar on the Metropolitan Community.** 3 hours. An intensive analysis of selected topics in the area of the metropolitan community. Prerequisite(s): a minimum of 18 hours in sociology, including SOCI 3300 and 4350, or equivalent. May be repeated for credit.

**6500. Seminar on Social Organization and Disorganization.** 3 hours. An intensive analysis of selected topics in such areas as social institutions and deviant behavior. Prerequisite(s): a minimum of 18 hours in sociology, or equivalent. May be repeated for credit.

**6900-6910. Special Problems.** 1–3 hours each.

**6940. Individual Research.** 1-12 hours.

**6950. Doctoral Dissertation.** 3, 6 or 9 hours. To be scheduled only with consent of department. 12 hours credit required. No credit assigned until dissertation has been completed and filed with the graduate dean. Doctoral students must maintain continuous enrollment in this course subsequent to passing qualifying examination for admission to candidacy. May be repeated for credit.

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## Spanish

see Foreign Languages and Literatures

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## Special Education

see Technology and Cognition

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## Speech and Hearing Sciences

### *Speech and Hearing Sciences, SPHS*

**5060. Practicum in Speech-Language Pathology and Audiology.** 1–3 hours. Diagnostic and management experiences in a variety of clinical settings. Requirements: the first enrollment for students with no previous clinical practicum in the UNT Speech and Hearing Center must be in a fall or spring term/semester; a 3.0 GPA must be maintained in department graduate courses for subsequent enrollments. Students who enter the program with inadequate preparation for graduate clinical practicum will be required to gain experience in a SPHS 4060 enrollment. Prerequisite(s): admission to a graduate degree program in speech and hearing sciences. Pass/no pass only.

**5070. Clinical Management in Communication Disorders.** 1 hour. Course provides information on therapeutic management, opportunities for student to develop professional competence and skills through case staffings, interdisciplinary interactions and discussion of current trends and issues. Prerequisite(s): concurrent enrollment in SPHS 5060.

**5500. Medical Aspects of Speech-Language Pathology I.** 3 hours. Normal and pathological anatomy and physiology of deglutition; etiology and characteristics of swallowing disorders; methods of evaluation and management of dysphagia in adults and children. Prerequisite(s): SPHS 4120 or consent of instructor.

**5510. Medical Aspects of Speech-Language Pathology II.** 3 hours. Pathological anatomy and physiology of head and neck; etiology and characteristics of speech and voice disorders resulting from genetic conditions or cancer of head and neck; methods of evaluation and management. Prerequisite(s): SPHS 4120 or consent of instructor.

- 5755. Neuromotor Speech Disorders.** 3 hours. Study of neurologically based communication disorders such as cerebral palsy, dysarthria, apraxia and demyelination.
- 5775. Research Methods in Speech-Language Pathology/Audiology.** 3 hours. Basic statistical measures, hypothesis formation, models, theories, experimental protocols, and designs in speech, language and hearing research. Prerequisite(s): minimum of three prior/present enrollments in SPHS 5060 or consent of instructor.
- 5780. Diagnostics: Speech Pathology.** 3 hours. Philosophical and practical considerations of the diagnostic process: current principles, methods, techniques.
- 5800. Fluency Disorders.** 3 hours. Theories of stuttering and allied disorders of rhythm, rate and fluency. Principles, methods and techniques of evaluation and management.
- 5810. Voice Disorders.** 3 hours. Principles, methods and techniques of evaluation and management of voice disorders.
- 5820. Language Development.** 3 hours. Stages of normal language acquisition in children, with consideration of current psycholinguistic theory and research issues.
- 5825. Phonologic and Phonetic Disorders.** 3 hours. A study of literature concerning normal aspects of phonological acquisition as well as assessment and treatment issues in regard to articulatory and phonologic disorders.
- 5830. Language Disorders I.** 3 hours. Principles, methods and techniques of evaluation and management of acquired and developmental language disorders in children from birth through five years. Prerequisite(s): SPHS 4010 and 4140, or equivalents.
- 5835. Language Disorders II.** 3 hours. Principles, methods and techniques of evaluation and management of acquired and developmental language disorders of school age children.
- 5840. Language Disorders III.** 3 hours. Principles, methods and techniques of evaluation and management of adults with acquired disorders such as aphasia, dementia, closed head injury, geriatric conditions and residual effects of developmental disorders. Prerequisite(s): SPHS 4010 and 4140, or equivalent.
- 5870. Seminar in Speech-Language Pathology.** 1–4 hours. Consideration of current research, clinical or professional trends and issues in speech-language pathology. May be repeated for credit as topics vary.
- 5900. Special Problems.** 1–3 hours. For students capable of developing a problem independently through conferences and activities directed by the instructor. Problem chosen by the student with the consent of the instructor. A written description of the proposed special problem signed by the student and the instructor must be filed in the department office prior to enrollment.
- 5920. Research Problems in Lieu of Thesis.** 1–3 hours.
- 5950. Master's Thesis.** 3 or 6 hours. To be scheduled only with consent of department. 6 hours credit required. No credit assigned until thesis has been completed and filed with the graduate dean. Continuous enrollment required once work on thesis has begun. May be repeated for credit.
- 6010. Clinical Observation in Audiology.** 2 hours. Directed observation in the audiology clinic. Development of clinical observation skills, interview techniques, case history follow-up, assistance with record-keeping. Includes observation in a variety of external audiology practicum sites.
- 6020. Clinical Audiology Clerkship.** 2 hours. Includes Clerkships I and II. Observation of the work of experienced clinicians in a variety of specialty areas; specifically audiological assessment, counseling, geriatric audiology, electrophysiological evaluation, hearing aids and rehabilitative audiology. Prerequisite(s): enrollment in the Doctor of Audiology degree program. May be repeated for credit.
- 6060. Audiology Internship.** 2 hours. Includes Internships I, II and III. Supervised client care in the UNT Speech and Hearing Center as well as a variety of external practicum sites. Prerequisite(s): enrollment in the Doctor of Audiology degree program and SPHS 6020. May be repeated for credit.
- 6070. Clinical Management of Audiological Services.** 2–4 hours. Information on diagnostic and therapeutic management; opportunities for student to develop professional competence and skill through lab exercises, case staffings, interdisciplinary interactions and discussions of current trends and issues.
- 6090. Clinical Residence in Audiology.** 3, 6 or 9 hours. Advanced full-time clinical practicum in an external practicum site during the fourth year of the AuD program. May involve relocation or travel. Prerequisite(s): completion of all academic and clinic course requirements. May be repeated for credit. Students will be required to take a total of 24 semester credit hours.
- 6100. Instrumentation in Audiology.** 2 hours. Introduction to signals, instrumentation and calibration of devices used to assess hearing. Lab topics include signal verification, audiometer calibration and sound-level measurement. Prerequisite(s): SPHS 6650 and 6660.
- 6200. Neuroanatomy and Neurophysiology of the Auditory and Vestibular System.** 3 hours. Neuroanatomy and neurophysiology of the hearing and balance systems. Emphasis on both afferent and efferent systems. Prerequisite(s): SPHS 4130 and 4120 or consent of instructor.
- 6650. Audiologic Assessment.** 3 hours. Fundamental principles and clinical application of pure tone and speech audiometry.
- 6660. Hearing Science.** 3 hours. The physical and psychological aspects of audition.
- 6670. Medical Audiology.** 3 hours. Functional anatomy, physiology and neurology of the hearing mechanism as applied to various pathologies and their otological management. Prerequisite(s): SPHS 6200.
- 6680. Pediatric Audiology.** 3 hours. Evaluation and management of hearing-impaired children. Prerequisite(s): SPHS 6650 or equivalent.
- 6690. Hearing Aids I.** 3 hours. Physical characteristics and clinical aspects of auditory amplification for the hearing impaired. Prerequisite(s): SPHS 6650, 6660, or equivalents.
- 6695. Hearing Aids II: Strategies for Selecting and Fitting Hearing Aids.** 3 hours. Strategies for selection and fitting of hearing aids and assistive listening devices. Special emphasis on fitting of programmable and digital instruments including real-ear measurement and computerized fitting techniques. Prerequisite(s): SPHS 6680 or equivalent.
- 6700. Rehabilitative Audiology: Children.** 3 hours. Management of infants and children with hearing loss. Includes procedures for management, amplification considerations, treatment methodologies, strategies for speech and language skills assessment, and educational options.
- 6710. Occupational and Environmental Hearing Conservation.** 3 hours. Physical, physiological and psychological effects of noise; its influence, measurement and control in society. Prerequisite(s): SPHS 6650, 6660, or equivalents.

**6730. Seminar in Audiology.** 1–3 hours. Consideration of current research, clinical or professional trends, and issues in audiology. Prerequisite(s): SPHS 6650. May be repeated for credit as topics vary.

**6760. Advanced Audiologic Assessment.** 3 hours. Application of pure tone, speech audiometry and electrophysiological measures to complex auditory problems. Prerequisite(s): SPHS 6650, 6700, or equivalents.

**6770. Electrophysiologic Assessment I.** 3 hours. Consideration of electrical potentials in the cochlea, electrical activity in the auditory nerve and brainstem, methodological considerations in studies of human evoked potentials, normal and abnormal cochlear, auditory nerve and brainstem responses. Otoacoustics emissions evoked and emitted and their clinical applications. Prerequisite(s): SPHS 6650.

**6780. Electrophysiologic Assessment II.** 3 hours. Applied electrophysiologic methods and techniques of evaluation of the auditory system using evoked potentials and otoacoustic emissions. Prerequisite(s): SPHS 6650.

**6800. Rehabilitative Audiology: Adults.** 3 hours. The rehabilitative management of the adult with hearing impairment. The rehabilitative process is examined from various parameters that affect it. Emphasis is on the assessment of communication function and appropriate remediation strategies specific to adults.

**6990. Research Project.** 3 hours. Faculty-directed research project that may be a prospective study of a selected aspect of auditory evaluation or rehabilitation, a retrospective analysis of existing audiologic databases, a historical survey of a particular problem area, or a feasibility study of an existing or proposed evaluation or intervention technique. May be repeated for credit. Prerequisite(s): PSYC 2317 or MATH 1680 or equivalent and SPHS 5775.

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## Teacher Education and Administration

### *Bilingual and English as a Second Language Education, EDBE*

**5560. Fundamentals of Bilingual and English as a Second Language Education in EC–12 Settings.** 3 hours. Examination of historical and legal aspects of bilingual and English as a second language education in EC–12 settings, including program models for the education and English language learners; also, an overview of theories of second language learning and their implications for practice in schools. A minimum of 10 hours of observation is required. Prerequisite(s): consent of department.

**5570. Assessing Language and Content Learning in EC–12 Bilingual and English as a Second Language Education.** 3 hours. Examination of issues related to assessment of language proficiency and cognitive abilities of EC–12 English language learners, including the importance of appropriate diagnostic testing to the teaching and learning progress; a review of potential cultural bias in EC–12 assessment procedures for assessing eligibility of EC–12 students for special language programs. Prerequisite(s): EDBE 5560 or consent of department.

**5580. Curriculum for EC–8 Bilingual Education.** 3 hours. Study of methods, approaches and materials to teach content in a bilingual classroom with a special focus on the rationale and techniques for literacy development in Spanish. Language of instruction is Spanish and English. Placement through

departmental Spanish proficiency exam. Ten hours of observation in authentic bilingual classrooms are required. Prerequisite(s): EDBE 5560 or consent of department.

**5585. Teaching, Reading and Other Language Arts in Bilingual Education.** 3 hours. Theoretical principles, practices and materials applicable to the teaching of reading and other language arts in Spanish in elementary bilingual education classrooms. Key topics include reading pedagogy for biliteracy, issues of transfer from Spanish to English reading, process writing, children's literature, use of Internet and applicable computer software resources and assessment strategies. Language of instruction: Spanish. Placement through departmental Spanish proficiency test. Minimum of 10 hours of observation in authentic bilingual classroom. Prerequisite(s): EDBE 5560.

**5590. Pedagogy of English as a Second Language for EC–12 Classrooms.** 3 hours. Examination of appropriate procedures and materials for academic content instruction and language development for English Language Learners (ELLs). Topics to be explored include structured and unstructured techniques for teaching ELLs, the relationship between oral language development and literacy skills, the development of literacy skills in English for students who are not literate in the first language and methods for effective sheltered English instruction. Emphasis placed on inclusion of all learners. Prerequisite(s): LING 5060, EDBE 5560 or consent of department.

### *Educational Administration and Supervision, EDAD*

**5300. Introduction to Educational Administration.** 3 hours. Focuses on instructional leadership development and serves as the introductory course for degrees and certification in educational administration. Includes a study of campus-level leadership and accountability and concomitant roles and responsibilities; as well as interrelationships among administrators, teachers, students, parents and community groups. Degree plans are developed and the major professor/adviser is assigned.

**5330. Instructional Leadership.** 3 hours. Study of instructional leadership as it relates to the improvement of instruction, effective schools and ongoing effective program delivery by personnel. Areas to be explored and discussed include significant and recent research and best practices of instructional leadership, learning theory, the change process, school climate and culture, effective teaching methods and the relationship of instruction to curriculum.

**5390. Campus-Level School Law.** 3 hours. Provides an understanding of important constitutional, statutory, administrative and case law as it pertains to the everyday operation of schools in Texas. Students learn the legal framework within which schooling takes place and how it structures the decisions that campus administrators make. Primary emphasis is placed on legal issues facing campus-level administrators.

**5400. Management of School Resources.** 3 hours. Introductory-level course in the planning and management of school resources with particular applications to Texas. Designed to prepare building-level administrators to understand the issues influencing the planning and management of personnel, financial and capital resources at the school building level.

**5500. Internship in Educational Administration.** 3 hours. Provision for on-the-job experience and professional study in administration and supervision as directed by the student's major adviser. Required for Texas professional certificate for school administration. Not applicable to degree programs. The internship requires 125 hours of experience at either a secondary, middle, elementary, or alternative school site. Prerequisite(s): completion of EDAD 5300, 5330, 5390 and 5400.