

Speech, Language, and Hearing Sciences

OFFICE: Communications Clinic 118
TELEPHONE: 619-594-6774
FAX: 619-594-7109

In the College of Health and Human Services

Accredited in speech-language pathology and audiology by the American Speech-Language-Hearing Association and in the education of the deaf by the Council on Education of the Deaf.

Faculty

Emeritus: Allen, Christensen, Davies, Earnest, Kopp, Nichols, Riedman, Seitz, Thile, Williams
Interim Director: Wulfeck
Professors: Cheng, Gutierrez-Clellen, Kramer, Newhoff, Robin, Shapiro, Thal, Wulfeck
Associate Professors: Barlow, Mackersie
Assistant Professors: Dreisbach Hawe, Torre, III
Lecturers: Branch, Fischer, Kane, Kotas, Lopes, Ramage, Ramsay, Roth-Abramson, Smith
Adjunct: Kryter, Singh

Offered by the School

Doctor of Philosophy degree in language and communicative disorders.
Doctor of Audiology.
Master of Arts degree in communicative disorders.
Major in communicative disorders with the B.A. degree in liberal arts and sciences.
Certificate in bilingual speech-language pathology (refer to *Bulletin of the Graduate Division*).
Clinical-rehabilitative services credential.
Education specialist for the deaf and hard of hearing credential.

The Major

Speech and language pathology, audiology, and education of the hearing impaired are professions which identify, help, and study persons with communicative disorders. Those entering these professions should possess a strong motivation to help individuals with genetically, physically, or psychologically caused communication problems. Preparation involves acquiring the knowledge and skills necessary to assume responsibility for assessment, education and rehabilitation of persons with speech, language, and hearing disorders. The School of Speech, Language, and Hearing Sciences is committed to preparing speech-language-hearing professionals to meet the challenges of a racially, ethnically, and linguistically diverse society.

The bachelor's degree serves as the basis for graduate and professional study in speech, language, and hearing sciences. There are no employment opportunities for holders of the bachelor's degree. A master's degree, national certification and state licensure or school credential are needed for professional practice.

The undergraduate curriculum is broad, involving coursework on normal and disordered speech, language, and hearing, as well as clinical procedures. All communicative disorders majors cover a set of general studies in early coursework (21 units) before specialization (29 upper division units). Students interested in the communicative disorders program are advised to take college level courses in anatomy, biology, psychology, English, physiology, linguistics, physics, and mathematics. Studies leading to private practice, hospital work, industrial work, work in school settings, or preparation for the master's degree are similar in many ways; it is the area of specialization that serves to differentiate courses of study.

The master's degree is an advanced degree for those wishing to work professionally as a speech-language pathologist, speech and hearing scientist, and/or deaf educator. A professional doctorate is recommended for audiology.

Positions in speech, language, and hearing sciences are available in many public and private settings working with persons with speech, language, and hearing, deaf-blind disorders. Graduates with certification or licensure work in rehabilitation centers, schools, hospitals, private agencies, private practice, industry, research, and university teaching and research centers. Career opportunities are particularly good for minority, bilingual or bicultural persons.

Communicative Disorders Major Honors

The School of Speech, Language, and Hearing Sciences formally recognizes exceptional undergraduate students in the program and encourages them to engage in research in the field. Students with a GPA of 3.5 or higher will be eligible to apply for admission to the school's honors program during the fall semester of their junior year.

Application. Interested students must complete an application that will be reviewed by the school's honors adviser who will make a recommendation to the admittance for each applicant. Once admitted to the program, honors students will begin their official program during the spring semester of their junior year. The program will take 1-1/2 years to complete. Each student will be required to maintain a GPA of 3.5 or higher and show evidence of progress through the honors program.

Faculty Mentor. Each student will select a research mentor (faculty sponsor) by the end of the junior year. The mentor will help the student select a program of study for the senior year. This will lead to a formal research prospectus for the honors project which will be due to the mentor and the honors adviser by October 1 of the student's senior year.

Honors Project. The student will conduct a research project and write up a formal honors report to be submitted to the research mentor and honors adviser at the end of the spring semester of the senior year. Each student will present the honors research at a school symposium at that time. The honors research must comply with all Human Subjects IRB regulations.

Requirements. Speech, Language, and Hearing Sciences 491 during the spring semester of the student's junior year and Speech, Language, and Hearing Sciences 492A and 492B during the fall and spring semesters of the senior year, respectively. No more than three units of honors courses may apply towards the required 29 units for the communicative disorders undergraduate major.

Communicative Disorders Major With the B.A. Degree in Liberal Arts and Sciences (Major Code: 12201)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 68 units in speech, language, and hearing sciences courses can apply to the degree.

A minor is not required with the major.

Preparation for the Major. Speech, Language, and Hearing Sciences 106, 159, 205; Psychology 101 and 260; Psychology 270 or Sociology 201 (or equivalent statistics course). Students in Education of the Deaf are also required to take Speech, Language, and Hearing Sciences 259, 289; Exercise and Nutritional Sciences 241A, 241B; and Mathematics 210. (19-32 units)

Language Requirement. Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

Graduation Writing Assessment Requirement. Completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better or passing the Writing Proficiency Assessment with a score of 10 or above. See page 73 in "Graduation Requirements" section for a complete listing of requirements.

Major. Students elect to follow one of three tracks for the major: (a) Audiology, (b) Education of the Deaf, or (c) Speech-Language Pathology. Within these three tracks, requirements for the communicative disorders major are as follows:

(a) *Audiology.* Speech, Language, and Hearing Sciences 300, 320, 321, 323, 340, 340L, 511, 512, 513, 580, and six units selected from Speech, Language, and Hearing Sciences 350, 491 or 492A, 499, 514, 595; Biology 321, 336; Counseling and School Psychology 400. (35 units)

(b) *Education of the Deaf.* Speech, Language, and Hearing Sciences 300, 340, 340L, 350, 357 (2 units), 511, 513, 550, 558; Special Education 500, 501, 502. (31 units)

(c) *Speech-Language Pathology.* Speech, Language, and Hearing Sciences 300, 320, 321, 323, 340, 340L, 503, 511, 512, 513, 514, 580. (35 units)

Students pursuing a graduate degree should consult the Bulletin of the Graduate Division for required undergraduate preparation.

Time Limitation. All courses for the major must be completed within seven years for the granting of the undergraduate degree. Any course completed more than seven years prior to the date on which all requirements for the degree are completed cannot be used to satisfy unit requirements for the degree. Exceptions for individual courses must be approved by the department and filed with the Office of Advising and Evaluations.

Credentials

The School of Speech, Language, and Hearing Sciences offers academic and practica coursework applicable to two credentials required for working in California public schools: The Clinical-Rehabilitative Services (C-RS) Credential (**Credential Code: 00900**) and the Education Specialist Credential for the Deaf and Hard of Hearing (**Credential Code: 00461**).

Applicants to a credential program are required to submit scores from the California Basic Education Skills Test (CBEST) as part of the application for admission to a credential program. Note that the CBEST is given only three or four times each year.

Credential candidates are required to have the Certificate of Clearance (finger printing) prior to beginning the school experience. Candidates should apply for the Certificate of Clearance several months prior to submitting an application to the school for public school practicum placement in order for the certificate to be processed in time for the placement.

Education Specialist Credential: Deaf and Hard-of-Hearing (Credential Code: 00461)

The Education Specialist Credential: Deaf and Hard-of-Hearing is required for persons wishing to teach children and youth who are deaf, hard-of-hearing, or deaf with special needs. The coursework in this special sequence meets the standards of the California Commission on Teacher Credentialing and the National Council on Education of the Deaf.

Admission Requirements:

1. Formal application to the graduate program in the School of Speech, Language, and Hearing Sciences. Applicants must satisfy the admission requirements for classified graduate standing with a concentration in education of learners who are deaf, hard-of-hearing, or deaf with special needs.
2. Interview with a faculty member in the School of Speech, Language, and Hearing Sciences.
3. American Sign Language proficiency at the intermediate level or higher as assessed by an SDSU-ASL proficiency interview.
4. Passing scores on the MSAT, RICA, and CBEST.

Program Requirements:

1. Coursework selected from the School of Speech, Language, and Hearing Sciences, and Departments of Policy Studies in Language and Cross-Cultural Education; Special Education.
2. A minimum of 200 hours of supervised clinical practica.
3. A minimum of 300 hours of supervised student teaching in special day and residential school settings.

The credential program involves a total of 56 units. The following courses are required:

Core courses: Speech, Language, and Hearing Sciences 550, 558; Policy Studies in Language and Cross-Cultural Education 600; Special Education 500, 501, 502.

Pedagogy courses: Speech, Language, and Hearing Sciences 655, 657, 668; Policy Studies in Language and Cross-Cultural Education 601, 650, 651.

Deaf and Hard-of-Hearing courses: Speech, Language, and Hearing Sciences 511, 556, 562, 656, 658, 659, 675, 953.

Clinical or Rehabilitative Services Credential Language, Speech and Hearing (Credential Code: 00900)

Students desiring to work with pupils with speech-language and hearing impairments on an itinerant or pull-out basis must complete the Clinical-Rehabilitative Services (C-RS) Credential for Language, Speech and Hearing (LSH). A master's degree in communicative disorders is required of all candidates graduating with a C-RS credential. Candidates for C-RS credential in Language, Speech and Hearing (LSH) must complete the requirements for the Certificate of Clinical Competence (CCC) from the American Speech-Language Hearing Association and the requirements of California licensure in Language and Speech. See sections on Certificates and Licensure.

Admission Requirements:

1. Formal application to San Diego State University and to the School of Speech, Language, and Hearing Sciences. All applicants for the credential must satisfy the admission requirements of the university and of the school for classified graduate standing and be recommended by the school for admission to the credential program.
2. California Basic Education Skills Test (CBEST) results.
3. Interview with the coordinator of the Language, Speech and Hearing credential.

Program Requirements:

1. The credential program requires a master's degree in Speech-Language Pathology.
2. The following courses are also required: Speech, Language, and Hearing Sciences 525, 541, 546, 618A, 618B, 626A, 626B, 626C, 627, 929, 933. In addition, students must complete at least one of the following courses: Speech, Language, and Hearing Sciences 521, 522, 619, or 676.
3. The program of professional preparation for the C-RS Credential in Language and Speech requires a minimum of 75 semester credit hours, including a minimum of 27 semester credit hours in basic sciences and a minimum of 36 semester credit

hours in professional coursework. At least 30 of the 36 semester credit hours must be in courses for which graduate credit is received, and at least 21 of the 30 graduate semester credit hours must be in the professional area for which the credential is sought. The candidate must complete a minimum of 25 supervised observation hours and 350 clinical contact hours including 50 clock hours in each of three types of clinical setting. This credential also requires that a minimum of 100 clock hours be completed in the school setting. See the section on Certificates and the Credential Coordinator for additional information.

Certificates and Licensure

Preparation Leading to the Certificate of Clinical Competence from the American Speech-Language-Hearing Association

Students may complete the academic and clinical practice requirements leading to the Certificate of Clinical Competence in Speech-Language Pathology (CCC-Sp) or to the Certificate of Clinical Competence in Audiology (CCC-A) given by the American Speech-Language-Hearing Association (ASHA). The certificate requires a master's degree and 75 semester units (at least 27 of the 75 semester units must be in basic science coursework, and at least 36 of the 75 semester units must be in professional coursework). At least 30 of the 36 professional coursework units must be in courses for which graduate credit was received. A minimum of 21 of the 30 units must be completed at the graduate level in the professional area for which the certificate is sought. The certificate requires 375 clock hours of supervised clinical observation (25 hours) and clinical practicum (350 hours), and at least 250 or the 350 clock hours must be in the professional area for which the certificate is sought while the applicant is engaged in graduate study. Clock hours must satisfy designated categories for age span, types of disorders, assessment and intervention. The applicant must pass a national examination in the area for which the certificate is sought and complete a Clinical Fellowship (following approval of academic coursework and clinical practica). Consult an adviser in the area in which certificate is desired.

Preparation Leading to the Professional Certificate from the Council on Education of the Deaf

Students may complete the academic and practica requirements leading to the Professional Certificate given by the Council on Education of the Deaf. The Professional Certificate requires a specific pattern of courses and teaching experiences. Consult an adviser in the Program for Education of the Deaf for more information. Education of the Deaf is a graduate level program.

Preparation Leading to State Licensure in Speech Pathology or Audiology

Students may complete the academic and clinical practicum requirements leading to California State Licensure in Speech Pathology or in Audiology, a legal requirement for all individuals professionally employed in non-public school settings and some public school settings. The Speech Pathology and Audiology Examining Committee which operates within the California State Board of Medical Quality Assurance requires a master's degree or equivalent in communicative disorders in the area (Speech Pathology or Audiology) in which the license is to be granted, 300 clock hours of supervised clinical experience, a national examination, and nine months of full-time supervised work experience (Required Professional Experience). Most Licensure and ASHA Certification requirements may be fulfilled concurrently. Consult an adviser in the area in which licensure is desired for specific information.

Liability Insurance

Students enrolled in Speech, Language, and Hearing Sciences 340L, 357, 525, 541, 556 are required to purchase professional liability insurance.

Courses (SLHS)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

LOWER DIVISION COURSES

No credit will be given for Speech, Language, and Hearing Sciences 159, 259, 289 taken out of sequence.

SLHS 106. Communicative Disorders (3)

Orientation to field of speech pathology and audiology. Survey of communicative disorders, covering all areas of exceptionality, normal growth and development as it relates to speech and language. Waiver of this course is permitted only upon satisfactory passage of a competency examination. (Formerly numbered Communicative Disorders 106.)

SLHS 159. American Sign Language I (4)

Introduction to American Sign Language syntax, semantics, and use. ASL literature and the culture of the deaf community. Beginning level communication competence in ASL. Not open to students who have completed three (or more) years of high school American Sign Language classes unless the third course was completed five or more years ago. (Formerly numbered Communicative Disorders 159.)

SLHS 205. Introduction to Audiology and Hearing Science (3)

Introduction to profession of audiology, anatomy, and physiology of hearing mechanism, physics of sound and decibel, understanding audiogram, introduction to diagnostic audiology and aural pathologies. (Formerly numbered Communicative Disorders 205.)

SLHS 259. American Sign Language II (4)

Prerequisite: Speech, Language, and Hearing Sciences 159.

Intermediate level communicative competence in American Sign Language (ASL). Readings include ASL linguistics and deaf culture. Not open to students who have completed four (or more) years of high school American Sign Language classes unless the fourth course was completed five or more years ago. (Formerly numbered Communicative Disorders 259.)

SLHS 289. American Sign Language III (4)

Prerequisite: Speech, Language, and Hearing Sciences 259.

Advanced communicative competence in American Sign Language (ASL). Fieldwork within the deaf community is a required component of this course. Not open to students who have completed five (or more) years of high school American Sign Language classes unless the fifth course was completed five or more years ago. (Formerly numbered Communicative Disorders 289.)

SLHS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

UPPER DIVISION COURSES (Intended for Undergraduates)

SLHS 300. Introduction to Language Science (3)

Structure, acquisition, processing, and neurological organization of language in typical and disordered communication. (Formerly numbered Communicative Disorders 300.)

SLHS 320. Phonetics (3)

Two lectures and three hours of laboratory.

Principles of speech production and practical skills in discriminating and transcribing sounds of various dialects in English and other languages, as well as clinical populations. Competency in IPA broad and narrow transcription, classification of speech sounds, and patterns of speech. (Formerly numbered Communicative Disorders 320.)

SLHS 321. Anatomy, Neurology, and Physiology of Speech (4)

Three lectures and three hours of laboratory.

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106. Recommended: Psychology 260.

Anatomy and physiology of neural, respiratory, phonological, and articulatory systems related to speech. (Formerly numbered Communicative Disorders 321.)

SLHS 322. Learning in Communicative Disorders (3)

Understanding how people learn to communicate and understanding differences in learning related to communication disorders. Principles of learning and motivation. Role of diversity in learning. (Formerly numbered Communicative Disorders 322.)

SLHS 323. Introduction to Speech Science (3)

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106. Recommended: Speech, Language, and Hearing Sciences 321, Psychology 260.

Basic concepts of speech science, laboratory methods, and data concerning speech acoustics, physiological phonetics, speech production theory, and speech perception. (Formerly numbered Communicative Disorders 323.)

SLHS 340. Principles of Audiology (3)

Prerequisites: Speech, Language, and Hearing Sciences 205, Psychology 260, and concurrent registration in Speech, Language, and Hearing Sciences 340L.

Diagnostic audiology procedures: Pure-tone testing, masking, speech recognition testing and immittance. Integration and interpretation of results from the basic audiological test battery. (Formerly numbered Communicative Disorders 340.)

SLHS 340L. Techniques of Audiometry (1)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 340.

Laboratory experience with pure-tone, speech, and immittance audiometric tests. (Formerly numbered Communicative Disorders 340L.)

SLHS 350. Introduction to Deaf Culture (3)

American deaf community. Focus on language, social practices, evolution of cultural identity. Practicum (with ASL interpreters if necessary) will provide students with direct interaction within deaf community. (Formerly numbered Communicative Disorders 350.)

SLHS 357. Fieldwork with the Deaf (1-2) Cr/NC

Two hours of activity per unit of credit and one hour of staffing.

Prerequisite recommended: Speech, Language, and Hearing Sciences 159.

Field observation and participation under supervision in school settings with small groups of hearing impaired youngsters. Maximum credit three units. (Formerly numbered Communicative Disorders 357.)

SLHS 491. Honors Special Study (2)

Prerequisites: Junior standing and formal admission to communicative disorders honors program.

Current research and methodology in communicative sciences and disorders, with emphasis on faculty research programs in the School of Speech, Language, and Hearing Sciences. (Formerly numbered Communicative Disorders 491.)

SLHS 492A. Honors Project and Symposium (3) Cr/NC

Prerequisites: Senior standing and admission to speech, language, and hearing sciences honors program.

Preparation of a research project for the honors program. (Formerly numbered Communicative Disorders 492A.)

SLHS 492B. Honors Project and Symposium Extension (3) Cr/NC

Prerequisite: Speech, Language, and Hearing Sciences 492A.

Completion and presentation of research project for the honors program. (Formerly numbered Communicative Disorders 492B.)

SLHS 496. Topics in Speech, Language, and Hearing Sciences (1-3)

Study of some problem in speech, language, and hearing sciences. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

SLHS 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

SLHS 503. Low Incidence Communicative Disorders (3)

Prerequisites: Speech, Language, and Hearing Sciences 320 and 321.

Characteristics, etiologies, assessment, and intervention strategies for fluency, voice, and craniofacial/cleft palate disorders. (Formerly numbered Communicative Disorders 503.)

SLHS 511. Pediatric Aural Rehabilitation (3)

Prerequisites: Speech, Language, and Hearing Sciences 320, 323, and 340. Recommended: Speech, Language, and Hearing Sciences 300, 357, and 513.

Theoretical, methodological, and technical issues related to facilitating receptive and expressive communication in individuals who are deaf or hard-of-hearing. Emphasizes multidisciplinary case management of children. (Formerly numbered Communicative Disorders 511.)

SLHS 512. Phonological Acquisition and Disorders (3)

Prerequisite: Speech, Language, and Hearing Sciences 320.

Phonology, phonological development, and phonological disorders as they relate to basic linguistic theory. Concepts considered through critical thinking and problem-solving. (Formerly numbered Communicative Disorders 512.)

SLHS 513. Language Development and Disorders in Early Childhood (3)

Prerequisites: Speech, Language, and Hearing Sciences 300, 320, 321.

Language and communication development, delay, and disorders as they relate to theory and clinical practice in children from infancy through preschool age. (Formerly numbered Communicative Disorders 513.)

SLHS 514. Language Development and Disorders in School Age Children and Adolescents (3)

Prerequisites: Speech, Language, and Hearing Sciences 300, 320, 321.

Language development, delay, and disorders as they relate to developmental theory and clinical practice for school-age children from 5 through 18 years of age. (Formerly numbered Communicative Disorders 514.)

SLHS 521. Speech-Language Screening of Children (1)

Four hours of supervision.

Prerequisite: Clinic clearance.

Screening speech and language of children in various community facilities and settings.

SLHS 522. Speech-Language Screening of Adults (1)

Four hours of supervision.

Prerequisite: Clinic clearance.

Screening speech and language of adults in various community facilities and settings.

SLHS 524. Clinical Methods in Speech-Language Pathology (2)

Prerequisites: Speech, Language, and Hearing Sciences 512 and Speech, Language, and Hearing Sciences 513 or 514.

Clinical issues, policies, and methods in speech-language pathology. Experience in writing lesson plans and clinical reports. Includes clinical observation to partially fulfill requirements for clinic clearance. May be taken concurrently with Speech, Language, and Hearing Sciences 525. (Formerly numbered Communicative Disorders 524.)

SLHS 525. Clinical Processes (1-2)

Two to four hours of clinical practica and grand rounds attendance once per month.

Prerequisite: Consent of instructor.

Topics, observation, and experience related to practice of speech-language pathology. Maximum credit five units. (Formerly numbered Communicative Disorders 525.)

SLHS 540. Hearing Conservation and Audiometry for School Nurses (3)

Prerequisite: Registered nurse.

Builds on registered nurse's knowledge of anatomy, physiology, and medical-surgical treatment of disease as it relates to auditory mechanism. Designed to give background in hearing screening (pure tone and impedance) and awareness of ramifications of hearing loss in children necessary for referral and follow-up. Fulfills three-unit requirement for the School Nurse Credential and may be used toward the six-unit State Audiometric Certificate requirement. Not open to students with credit in Speech, Language, and Hearing Sciences 205, 340, 340L. (Formerly numbered Communicative Disorders 540.)

SLHS 541. Hearing Screening of Children (1) Cr/NC

Three hours of laboratory screening per week.

Prerequisites: Speech, Language, and Hearing Sciences 340 and 340L.

Field experiences in audiometric and impedance screening of children to obtain contact hours in screening required by American Speech-Language-Hearing Association, California License, and Clinical-Rehabilitative Services credential. (Formerly numbered Communicative Disorders 541.)

SLHS 546. Clinical Practice with Aural Rehabilitation (.5)

Two hours of supervision.

Prerequisites: Grade of C or better in Speech, Language, and Hearing Sciences 511 and a minimum of two units in Speech, Language, and Hearing Sciences 525.

Supervised practicum in aural rehabilitation. One unit represents two hours of clinical contact and one hour of staffing per week.

SLHS 550. Education of Deaf Children and Youth (3)

Prerequisite: Speech, Language, and Hearing Sciences 350.

Educational programs, services and resources for learners who are deaf; historical background, philosophy, sociological and psychological problems. (Formerly numbered Communicative Disorders 550.)

SLHS 556. Clinical Practice with Learners Who Are Deaf or Hard-of-Hearing (1)

Two hours of supervision, one hour of staffing per week, and grand rounds attendance once per month.

Prerequisites: Speech, Language, and Hearing Sciences 159, 357; credit in two of the following and concurrent registration in the third: Speech, Language, and Hearing Sciences 511, 513, 562. Admission to clinical practicum includes successful completion of competency examination.

Supervised therapy with representative challenges found in the deaf and hard-of-hearing population. Maximum one unit first semester; maximum credit two units. (Formerly numbered Communicative Disorders 556.)

SLHS 558. ASL Structure and Acquisition (3)

Prerequisites: Speech, Language, and Hearing Sciences 289, 350; Linguistics 452.

ASL phonology, morphology, syntax, and discourse structure, including simple and complex sentence structure, storytelling, and sociolinguistics. Analyzing language samples in ASL. Developing lesson plans to teach ASL to deaf and hard-of-hearing children. (Formerly numbered Communicative Disorders 400.)

SLHS 562. Oral Communication for Children Who Are Deaf or Hard-of-Hearing (3)

Prerequisite: Speech, Language, and Hearing Sciences 550.

Current methods for developing oral/aural communication skills with learners who are deaf or hard-of-hearing and youth. Differential problems of acquisition of communicative competence. Assessment and intervention procedures for classroom and clinical settings. (Formerly numbered Communicative Disorders 562.)

SLHS 570. Dysphagia (2)

Prerequisite: Speech, Language, and Hearing Sciences 321.

Measurement techniques and research in dysphagia. Assessment and treatment of dysphagia and swallowing problems in children and adults. (Formerly numbered Communicative Disorders 570.)

SLHS 580. Communication Processes and Aging (3)

Prerequisites: Twelve upper division units in an appropriate major.

Normal and disordered communication processes in the aging. (Formerly numbered Communicative Disorders 580.)

SLHS 595. Research Practicum (1-3)

Prerequisites: Consent of instructor and approval of school chair.

Participation in a specific research activity under faculty supervision. Maximum combined credit of six units of Speech, Language, and Hearing Sciences 595 and 795. (Formerly numbered Communicative Disorders 595.)

SLHS 596. Selected Topics in Speech, Language, and Hearing Sciences (1-4)

Prerequisite: Twelve units in speech, language, and hearing sciences courses.

Specialized study of selected topics from the area of speech-language pathology, audiology, education of the hearing impaired, and speech and hearing science. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596. Maximum credit of three units of 596 applicable to a master's degree. Maximum combined credit of six units of 596 and 696 applicable to a 30-unit master's degree.

GRADUATE COURSES

Refer to *Bulletin of the Graduate Division*.
