

Department of

SPEECH, LANGUAGE, and HEARING SCIENCES

2017-2018

Department Overview

Introduction to the "Cactus Book"



Department of Speech, Language, and Hearing Sciences
The University of Arizona
1131 E. 2nd Street
P.O. Box 210071
Tucson, Arizona 85721-0071

The Department of Speech, Language, and Hearing Sciences



Mission Statement

The mission of the Department is to contribute to the scientific study of human communication and its disorders, and to educate students regarding the relevant knowledge and skills necessary for clinical and research endeavors in the field.

Academic Programs

The Department of Speech, Language, and Hearing Sciences offers coursework leading to B.S., M.S., Au.D., and Ph.D. degrees. The undergraduate degree provides a broad education providing an understanding of human communication and its disorders. This degree is also preparatory for clinical degrees in speech-language pathology or audiology, as well as for advanced degrees speech, language, and hearing sciences or related fields of study. The master's program in speech-language pathology and the clinical doctoral program in audiology are accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology a semi-autonomous body of the American Speech-Language-Hearing Association (ASHA).

The Master of Science (M.S.) program is a two-year course of study that includes a variety of clinical training opportunities for students desiring a career in speech-language pathology. Those master's level students planning to pursue studies leading to a Ph.D. degree should also plan to complete a master's thesis. A nonclinical Master of Science degree is also available.

The Doctor of Audiology (Au.D.) program is a four-year course of study that is a professional degree with a clinical emphasis in audiology.

The Doctor of Philosophy (Ph.D.) program prepares students for academic and research careers through coursework and participation in research projects.

The information that follows is subject to change. The Departmental requirements and practices summarized herein supplement those described in the University of Arizona's General and Graduate Catalogs. In case of conflict, the appropriate Catalog prevails. Students are held to Departmental requirements in effect at the time they are admitted to the program unless they formally choose to meet new requirements.

Department of Speech, Language, and Hearing Sciences Training Mission Statement

The training mission of the Department of Speech, Language, and Hearing Sciences at the University of Arizona is to provide academic and clinical training to students in audiology and speech-language pathology sufficient to achieve the following knowledge outcomes and skills:

- Ability to comprehend basic principles of biological and physical sciences, mathematics and the social and behavioral sciences.
- Ability to demonstrate speech and language skills necessary for effective communication with clients/patients and their relevant others, and for composing wellwritten and substantive diagnostic and treatment reports, treatment plans, professional correspondence, and scientific and technical reports,
- Ability to analyze, synthesize and evaluate biological, acoustic, psychological, developmental, linguistic and cultural correlates of basic human communication processes and disorders including: speech, receptive and expressive language in oral, written, and manual modalities, hearing, swallowing, and cognitive/social aspects of communication.
- Ability to analyze and evaluate information about prevention, assessment, and intervention over the range of communication disorders specified in the current ASHA Scope of Practice for audiology and speech-language pathology.
- Ability to analyze and synthesize relevant information regarding professional ethics and to interpret the principles of the ASHA Code of Ethics as they apply to the professional practice of audiology and speech-language pathology.
- Ability to comprehend the common principles of research and research design, both basic and applied, used in human communication sciences and disorders and to know sources of research information and how to access them.
- Have an understanding of issues currently having an impact on audiology or speechlanguage pathology as professions.

RESEARCH AND CLINICAL FACULTY

Al-Jurf, Soha M.S. Speech Language Pathologist (SLP)

Alt, Mary Ph.D. Associate Professor (SLP)
Baraket, Fadyeh Au.D. Clinical Instructor (AUD)

Beeson, Pélagie M. Ph.D. Professor and Department Head (SLP)

Brown, Jessica Ph.D. Assistant Professor (SLP)
Bunton, Kate Ph.D. Associate Professor (SLP)

Casteix, Jennifer M.S. Clinical Associate Professor (SLP)
Cazzato, Kathleen M.A. Clinical Assistant Professor (SLP)

Cone, Barbara Ph.D. Professor (AUD)

Cuzner, Lea M.S. Clinical Assistant Professor (SLP)
DeRuiter, Mark Ph.D. Clinical Professor (AUD/SLP)

Dai, Huanping Ph.D. Associate Professor
Dean, James Au.D. Senior Lecturer (AUD)
Fabiano-Smith, Leah Ph.D. Assistant Professor (SLP)

Faux Muller, Cass M.S. Clinical Associate Professor (SLP)

Hansen, Erica Au.D. Clinical Instructor (AUD)

Hawley, Janet L. M.S. Clinical Assistant Professor (SLP)

Hoit, Jeannette D. Ph.D. Professor (SLP)
Kielar, Aneta Ph.D. Assistant Professor

Marrone, Nicole Ph.D. Assistant Professor (AUD)
Miller, Julie Ph.D. Assistant Professor (SLP)
Motoyoshi, Rui M.A. Clinical Instructor (SLP)

Muller, Thomas Au.D. Clinical Associate Professor (AUD)

Musiek, Frank Ph.D. Professor

Norrix, Linda Ph.D. Clinical Associate Professor (AUD)

Plante, Elena Ph.D. Professor (SLP)

Samlan, Robin Ph.D. Assistant Professor (SLP)

Story, Brad Ph.D. Professor and Associate Department Head

Velenovsky, DavidPh.D.Senior Lecturer (AUD)White, MeghanPh.D.Assistant Professor (SLP)Wong, AileenAu.D.Clinical Instructor (AUD)

Wymer, Carole M.S. Clinical Assistant Professor (SLP)

EMERITUS FACULTY

Bayles, Kathryn Ph.D. Professor Emerita
Boone, Daniel R. Ph.D. Professor Emeritus
Glattke, Theodore J. Ph.D. Professor Emeritus
Hodgson, William R. Ph.D. Professor Emeritus

Holland, Audrey L. Ph.D. Regents Professor Emerita

Shelton, Ralph L. Ph.D. Professor Emeritus

SPEECH, LANGUAGE, AND HEARING RESEARCH FACULTY RESEARCH

The Speech, Language, and Hearing Sciences building houses research laboratories that complement our on-campus clinical facilities. Students have the opportunity to enroll in independent studies, participate in ongoing investigations, and to conduct directed research in the context of thesis and dissertation projects. A wide range of research interests are represented by the faculty as highlighted below.

Mary Alt	Recentive language	development with a	particular emphasis on the
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learning mechanisms that contribute to Specific Language

Impairment.

Pélagie Beeson Neurogenic communication disorders, with particular emphasis on

the nature and treatment of aphasia, acquired alexia and agraphia.

Jessica Brown Development of ecologically-valid assessments, evaluation of

augmentative supports and strategies, and examination of visual and cognitive abilities to improve functional outcomes for individuals with traumatic brain injury, concussion, and stroke across the lifespan.

Kate Bunton Kinematic, aerodynamic, and acoustic characteristics of normal and

disordered speech production, speech development, and correlates

of speech intelligibility.

Barbara Cone Human auditory system development and methods for assessing

hearing in infants at risk for hearing loss or neurologic impairment.

Mark DeRuiter Clinical Education in Speech-Language Pathology and Audiology;

Auditory Processing and Language Correlates in Children and Adults

Huanping Dai

Basic-science aspects of auditory perception, applied issues related to

hearing, including the application of statistical and psychophysical principles and methods to the diagnoses of hearing disorders, and

the signal processing for amplification.

James Dean Audiologic assessment for individuals with developmental disabilities,

predictive modeling of audiological treatment benefits and the application of outcome measures to validate treatment efficacy.

Leah Fabiano-Smith Phonological development and disorders in bilingual Spanish-English

speaking children and clinical issues related to culturally and

linguistically diverse populations.

Jeannette Hoit Normal and abnormal speech motor control, aging speech and

hearing physiology, motor speech disorders, research ethics and

practices.

Aneta Kielar Integration of behavioral and neuroimaging measures of brain

function with goal to understand changes in cognitive functioning

associated with brain damage and recovery.

Nicole Marrone Hearing loss and treatment in adults; aging and cognitive factors in

auditory perception; improving speech understanding in competing

noise and reverberation

Julie Miller Neurogenetic mechanisms underlying birdsong as a model for

understanding speech function and dysfunction

Frank Musiek (Central) auditory processing disorders, Auditory evoked potentials,

Neuroanatomy & neurophysiology of the central auditory system,

Neuroaudiology

Elena Plante Brain-language relations in developmental language disorders and

language assessment and treatment.

Robin Samlan Production, perception, and measurement of the human voice

Brad Story Speech acoustics/analysis/signal processing, synthesis/simulation of

speech and voice, relation between articulation and acoustics, speech-to-speech transformation, perception of natural and

synthetic speech.

David Velenovsky Tinnitus management, studying inner ear function in lizards as a way

to better understand cochlear mechanics and auditory processing in

individuals on the autism spectrum.

Meghan Darling-White Develop and validate interventions that have an impact on functional

speech production skills in individuals with motor speech disorders.

Research Professionals

Chelsea Bayley, M.S., CCC-SLP Aphasia Research Project (Beeson)

Cecelia Figueroa, M.S., CCC-SLP L4 Lab (Alt)

Dianne Patterson, Ph.D. Plante Lab & Aphasia Research Project (Beeson)

Kindle Rising, M.S., CCC-SLP Aphasia Research Project (Beeson)

Rebecca Vance, M.S., CCC-SLP Plante Lab

COURSES IN SPEECH, LANGUAGE, AND HEARING SCIENCES

All courses, with the exceptions noted below, carry three (3) semester hours of credit. Prerequisites (P) are indicated below. Concurrent registration allowed is listed as CR. Courses needing instructor approval prior to enrolling are indicated as "Instructor approval." All courses are preceded by the department code SLHS.

Course #	Course Title	Semester offered (Fall, Spring, Summer)
207	Survey of Human Communications and Disorde	rs F, S
255	Hearing, Health and Society	F
261	Anatomy and Physiology of the Speech Mechan (4, includes lab)	ism S
263	The World of Sound: Speech, Music, & MP3s	F, S
267	Acoustics for the Speech and Hearing Sciences (P Math 111 or Math 120R)	F, S
270	Scientific Thinking in Speech and Hearing Science	ces S
340	Language Science	F
362	Neurobiology of Communication	F
367	Speech Science	S
380	Hearing Science (4, includes lab) (P SLHS 267)	S, Su
391*	Preceptorship	F, S
392*	Directed Research (1-6)	F, S, Su
399*	Independent Study (1-3)	F, S, Su
399H*	Honors Independent Study (1-3)	F, S, Su
430/530	Cognitive Neuroscience of Language (P 340, 362	2) S
435/535	Bilingualism, Multiculturalism, and Nonmainstream Dialects (P 340, 362, CR 441)	S
441/541	Language Acquisition (P340)	S
454/554	Audiologic Rehabilitation-Lifespan (P 483)	F
458/558	Clinical Studies: Speech-Language Pathology (1-3) (P 441, 471, & 3.2 GPA)	F, S, Su
459/559	Clinical Studies: Audiology (1-3) (P 441, 471, & 3.2 GPA)	F, S, Su
468	Speech Perception	S
471/571	Speech Sound Disorders (P 367 & 3.2 GPA)	F

473	Communication Disorders II	S
477	Communication Disorders I	F
483/583R	Principles of Audiology (P380)	F, Su
483/583L	Laboratory in Principles of Audiology (CR 483R)	F, Su
491*	Preceptorship (1-3)	F, S
491H*	Honors Preceptorship (1-3)	F, S
492*	Directed Research (1-6)	F, S, Su
495a	Colloquium (1)	F, S
496a/596a	Seminar: Advanced Clinical Observation, Analysis, & Writing (1) (P 477, 483R, CR 473)	S
497	Accent Modification (1)	Su
498	Senior Capstone (1-3)	F, S, Su
498H*	Honors Thesis	F, S, Su
499*	Independent Study (1-5)	F, S, Su
499H*	Honors Independent Study	F, S, Su
500	Introduction to Research Methods in Speech and Hearing Sciences	S
501	Professional Issues in Speech-Language Pathology and Audiology (1)	F
509	Pediatric Audiology Clinic Readiness	S
510	Counseling Techniques in Communication Disorders	S
511	Tool School (1)	F
512	Evaluation Process in Speech-Language Pathology	S
520	Cognitive Neuroscience of Hearing	F
543	Adult Language Disorders: TBI and Dementia	S
544	Adult Language Disorders: Aphasia & RHI	F
552	Language Disorders in School Age Children (P441)	S
555	Developmental Language Disorders: Preschool Level (P441)	F
557	Dysphagia	S
558	Clinical Studies: Speech-Language Pathology (1-3)	F, S, Su
559	Clinical Studies: Audiology (1-3)	F, S, Su
562A	Anatomy and Physiology of Auditory and Vestibular Systems	F
562B	Psychophysical Acoustics	F

565		Acoustics for the Speech and Hearing Sciences (P Math 111 or Math 120R)	F
566		Preclinical Speech Science (4)	F
568		Speech Perception (P 267 or 565, Ling 314 or equiv) (odd years)	S
572		Speech Disorders I (P 566 or 567)	F
574		Speech Disorders II (P 566 or 567)	S
575		Neuromotor Speech Disorders (P 566 or 567)	F
581A		Amplification I	S
581B		Amplification II	F
582A		Disorders of Hearing and Balance	S
584		Occupational and Community Audiology (even years)	S
586		Pediatric Audiology (4)	S
587		Laboratory in Auditory Prosthetics (1)	F, S
588A		Physiological Evaluation in Audiology	F
588B		Assessment and Rehabilitation of the Balance System	S
588C		Electrophysiology of Auditory Perception (odd years)	S
588L		Laboratory in Electrophysiology	F
588Q		Laboratory in Balance	S
589R		Advanced Audiologic Evaluation	F
595a		Colloquium (1)	F, S, Su
596 597*	A B G J K M	Seminar (1-3) Experimental Phonetics Clinical Audiology Cochlear Implants Practice Management Imaging Technologies Tinnitus Workshop (1-3)	Instructor approval Instructor approval F S Instructor approval S F, S, Su
599*		Independent Study (1-3)	F, S, Su
649		Survival Skills and Ethics	S
658		Advanced Clinical Studies: Speech-Language (1-3)	F, S, Su
659		Advanced Clinical Studies: Audiology (1-3)	F, S, Su
691*		Preceptorship (1-3)	Instructor approval
696	A B	Seminar (1-3) Topics in Speech, Language, Hearing Science Clinical Audiology	F, S F, S

699*	Independent Study (1-3)	Instructor approval
795a	Clinical Issues in Audiology (1-3)	F, S
799*	Independent Study (1-3)	Instructor approval
900*	Research (1-3)	Instructor approval
910*	Thesis (1-6)	Instructor approval
912*	Audiology Doctoral Project (1-9)	Instructor approval
920*	Dissertation (1-9)	Instructor approval
921	Audiology Externship (1-14)	Instructor approval

^{*} Section number should associate with the faculty mentor.

Students interested in enrolling for independent study should review information on faculty websites.