Communication Sciences and Disorders

Overview

The undergraduate program in speech pathology and audiology provides a thorough understanding of the basic processes involved in speech, swallowing, hearing, and language in addition to a broad overview of communication disorders in preparation for professional graduate study in speech-language pathology or audiology.

The Master of Science (M.S.) and Doctor of Audiology (Au.D.) programs in the Department of Communication Sciences and Disorders address the knowledge and skills that prepare graduates to excel in the professions of speech-language pathology and audiology, respectively. Both graduate programs meet the clinical and academic requirements for professional licensure and certification, and both are accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association. Graduates of the professional programs are well-prepared to diagnose and treat the full range of communicative disorders in all age groups and to practice competently as speech-language pathologists and audiologists in a wide range of clinical settings.

The Doctor of Philosophy (Ph.D.) in Communication Sciences and Disorders is a customized post-professional program that prepares audiologists and speech-language pathologists to become effective teachers and researchers with an area of expertise within hearing science and disorders or within speech and language sciences and disorders.

The Department of Communication Sciences and Disorders provides professional services to the public through our on-campus clinics. The West Virginia University Speech Center offers a wide variety of speech-language pathology services to children and adults, whereas the West Virginia University Hearing Center is well-equipped to provide complete diagnostic and rehabilitative audiology services. Fully staffed by professional supervisors, these state-of-the-art clinical facilities help meet the health care needs of the community, while supporting the professional education of the department’s graduate students.

ADMISSION

All applicants for the M.S. in Speech-Language Pathology Program must have a baccalaureate degree or equivalent from a regionally accredited institution of higher learning, and present the following by the January 15 deadline:

1. An undergraduate major in speech-language pathology and audiology or communication sciences and disorders
2. One official transcript from each college attended
3. An overall undergraduate grade point average (GPA) of at least 3.0 (A = 4.0)
4. An official copy of the applicant’s Graduate Record Examination (GRE) scores
5. Proof of English language proficiency for any applicant whose first language is not English
6. Three letters of recommendation that reflect the applicant’s academic and clinical abilities, potential for success in graduate studies, and personal qualities predictable of professional success as a speech-language pathologist
7. A personal statement that addresses the applicant’s goals for professional graduate study in speech-language pathology

All applicants being considered for admission will be provided with a personal interview with members of the CSD faculty.

In some cases, applicants without preparatory coursework in speech-language pathology and audiology (communication sciences and disorders) may be considered for graduate admission, but the program of study will require two additional semesters of added coursework.

Please submit transcripts directly to:
West Virginia University
Office of Admissions
P.O. Box 6009
Morgantown, WV 26506-6009

The WVU Institution Code for the GRE is R5904. Applicants may have their official scores submitted from the newly revised GRE or from the older version, if taken within the past five years. Although no minimum is specified for either test version, GRE scores that meet or exceed the fiftieth percentile are recommended.

ADMISSION

All applicants for the Au.D. program must have a baccalaureate degree or equivalent from a regionally accredited institution of higher learning and present the following by the January 15 deadline:

1. An undergraduate major in speech pathology and audiology or communication sciences and disorders
2. One official transcript from each college attended
3. An overall undergraduate grade point average (GPA) of at least 3.0 (A = 4.0)
4. An official copy of the applicant’s Graduate Record Examination (GRE) scores
5. Proof of English language proficiency for any applicant whose first language is not English
6. Three letters of recommendation which reflect the applicant’s academic and clinical abilities, potential for success in graduate studies, and personal qualities predictive of professional success as an audiologist
7. A personal statement describing the applicant’s goals, aspirations, and motivation for pursuing professional doctoral education in audiology

All applicants being considered for admission will be provided with a personal interview with members of the CSD faculty.

In some cases, applicants without preparatory coursework in speech-language pathology and audiology may be considered for graduate admission, but the program of study will require two additional semesters of added coursework.

ADMISSION AND PERFORMANCE STANDARDS
A Ph.D. Advisory Committee composed of one member from each of the major areas of study will screen the applications and make admissions decisions based on the following criteria, in consultation with the faculty in their area of emphasis. In particular, applicants must have the following:

1. An entry-level clinical degree for the profession of speech-language pathology (i.e., M.A. or M.S.) or audiology (i.e., M.A., M.S., or Au.D.)
2. A cumulative grade point average of 3.25 or higher (A=4.0) upon completion of a graduate degree
3. A score at or above the fiftieth percentile on the Verbal and Quantitative sections and a score of at least 4.0 on the Analytical Writing section on an official copy of the Graduate Record Examination (GRE)
4. A TOEFL score of at least 79 (internet version), 213 (computer-based), 550 (paper-based) or an IELTS score of at least 6.5, if English is not the applicant’s native language
5. An interview with the Ph.D. advisory committee that will include the writing of an essay on an assigned topic to be evaluated by program faculty
6. Three letters of recommendation, two of which must come from previous instructors or professors who can comment meaningfully on the applicant’s potential for Ph.D. study
7. A personal statement that addresses the applicant’s professional goals within speech and language sciences and disorders or within hearing science and disorders

Master of Science (M.S.) Program in Speech-Language Pathology
The purpose of the Master of Science degree program in Speech-Language Pathology is to provide aspiring professionals with a firm understanding of the normal processes of speech, language, and hearing; the competence to diagnose and treat the full range of communicative disorders in all age groups; and the opportunity to practice in a wide variety of clinical settings, including schools, hospitals, clinics, special treatment centers, and private practice. The M.S. in speech-language pathology, therefore, is a professional program that emphasizes the knowledge and skills requisite for competent and ethical clinical practice. Graduation thus depends on completion of all academic requirements and the demonstration of sound clinical expertise. The M.S. in speech-language pathology program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association.

Students are expected to become familiar with the 2014 Standards for the Certificate of Clinical Competence in Speech-Language Pathology. Additional information regarding graduate student expectations is outlined in the current edition of the Graduate Student Handbook for Speech-Language Pathology.

GRADUATION REQUIREMENTS
The following are the minimum graduation requirements for the M.S. degree program:

1. Completion of all required courses in the graduate speech-language pathology curriculum
2. A minimum of 400 clock hours of supervised practicum, including at least twenty-five hours of clinical observation and 375 hours of direct patient/client contact
3. An overall graduate grade point average of at least 3.0 (A = 4.0)

RESIDENCY REQUIREMENTS
All students in the M.S. program in speech-language pathology must be full-time in residence during the program of study. The minimum duration for graduate study is five consecutive semesters (including summer sessions). All M.S. students are expected to complete SPA 718 during their final semester of the program. Part-time students are not eligible for admission.

Students must complete an online Application for Graduation and Diploma form by the posted deadline at the beginning of the semester in which they intend to graduate.

Doctor of Audiology (Au.D) Program
The Doctor of audiology (Au.D.) program at West Virginia University was inaugurated in 2004 when the clinical doctorate became the entry-level degree for the profession of audiology. The program consists of 116 credit hours of academic coursework and clinical practicum experiences, including a fourth year residency. Graduates must demonstrate acquisition of all knowledge and skills delineated in the Standards for the Certificate of Clinical Competence in Audiology (CCC-A). The Au.D. program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association. Students are expected to become familiar with the 2012 Standards for the Certificate of Clinical competence in Audiology. Additional information regarding graduate student expectations is outlined in the current edition of the Graduate Student Handbook for Audiology.

PROGRAM OBJECTIVES

The Au.D. program has been designed to provide a firm understanding of the normal processes of hearing and communication with the academic and clinical preparation to diagnose and treat the full range of hearing disorders in all age groups. Our goal is to prepare audiologists who are competent to work in a wide variety of clinical settings, including hospitals, clinics, special treatment centers, schools, industry, and private practice. The program’s intent is to provide the knowledge and skills necessary to practice audiology autonomously in an effective, ethical manner. To this end, the following goals have been established by the Department of Speech Pathology and Audiology at West Virginia University:

1. Graduates will demonstrate mastery of knowledge and skills necessary to practice audiology in diverse settings encompassing all of the many facets of our profession.
2. Graduates will demonstrate an ability to work autonomously, using sound judgment in a competent and ethical manner.
3. Graduates will contribute to the profession and their community via active membership in professional organizations, scholarly activity, and taking the initiative in public education concerning hearing and balance disorders.
4. Graduates will be employed as audiologists serving the hearing impaired populaces, industry, and the medical community with special emphasis in underserved areas of our state.

GRADUATION REQUIREMENTS

The following are the minimum graduation requirements for the Au.D. program:

1. Successful completion of 116 semester hours of course work, including the following: (1) sixty-four semester hours in SPA courses and associated laboratories, (2) six semester hours in related areas of counseling, research methods, and business, (3) three semester hours (minimum) in appropriate elective course work, (4)nineteen semester hours of clinic practicum (seventeen audiology, two speech-language pathology), and (5) twenty-four semester hours of clinical residency.
2. An overall graduate GPA of at least 3.0 with a minimum competency level of B, P, or S in all courses and clinical practicum
3. Successful completion of an ASHA-approved practicum experience that is equivalent to a minimum of twelve months of full-time supervised experience
4. Scholarly work, approved by the student’s advisory committee, submitted in written form
5. A passing score on the Praxis exam in Audiology (which is required prior to approval for a residency experience)

Students must complete an online Application for Graduation and Diploma form by the posted deadline at the beginning of the semester in which they intend to graduate.

RESIDENCY REQUIREMENTS

All students in the Au.D. program must be full-time in residence during the program of study. The minimum duration for graduate study is eleven consecutive semesters (including summer sessions). Part-time students are not eligible for admission to the Au.D. degree program.

Doctor of Philosophy (Ph.D.) Program

The Ph.D. degree program provides a rigorous course of study along with mentored research and teaching experiences to enable students to become high-quality researchers and serve effectively as leaders in the discipline of communication sciences and disorders. Graduates of the program are prepared to assume careers as researchers and scholars at colleges, universities, hospitals, industrial settings, and research facilities. The program is not designed to provide an advanced clinical degree. Rather, the Ph.D. degree will be conferred in recognition of the attainment of the highest academic excellence and productive scholarship. As doctoral programs are an integral step on a life-long journey of learning and scholarship, the Department of Speech Pathology and Audiology has established the Ph.D. program in Communication Sciences and Disorders to support students in developing knowledge, judgment, skills, and attitudes to facilitate their growth and learning throughout their careers as researchers, scholars, and teachers.

PROGRAM OBJECTIVES

The primary objective of the Ph.D. degree program is to assist students to develop in-depth mastery of subject matter in a narrow and specific area within the broad discipline of communication sciences and disorders and, simultaneously, to broaden one’s knowledge base in other fields related to the special area of interest, such as health, linguistics, education, and the physical, biological, and socio-behavioral sciences. With the intent to prepare high-quality researchers to serve as leaders in the discipline of communication sciences and disorders, graduates of the program will be prepared to
assume independent careers as researchers and scholars at colleges, universities, and hospitals, as well to become key personnel at leading private and public research institutes. Specifically, the objectives of the Ph.D. program include:

1. The development of independent research skills through sequential experiences that involve the planning and conduct (or implementation) of research projects, the writing of grants, and the dissemination of research findings through the presentation of papers at scientific and other professional conferences and publication in peer-reviewed journals in the discipline;
2. The preparation of academicians equipped to teach the university students of tomorrow through guided coursework in educational methods and evaluation, instructional technologies including online course delivery, international and intercultural experiences, and classroom practice; and
3. The acquisition of advanced knowledge and understanding of a specialized area with the ability to apply this understanding to research, teaching, and scholarship.

A HIGHLY INDIVIDUALIZED EXPERIENCE
The Ph.D. program in Communication Sciences and Disorders is a highly individualized experience that includes prescribed and selected coursework designed to meet the objectives of the program, ongoing participation in research and other scholarly activities, and the independent completion of a dissertation under the mentorship of a research advisor. As such, the time needed to complete the program will vary to ensure sufficient time for the building of adequate teaching and research skills and a creditable curriculum vitae. Some diligent and highly motivated students may be able to complete their work in less time, whereas others may require more time to achieve independence as a scholar and researcher.

Because the discipline of communication sciences and disorders supports two professions, audiology and speech-language pathology, students in the Ph.D. degree program may pursue one of the following areas of emphasis:

1. Speech and language sciences and disorders
2. Hearing science and disorders

It is expected that—through study, scholarship, and mentorship—Ph.D. candidates will develop deep expertise in a specific topic within an area of emphasis.

PROGRAM REQUIREMENTS
RESIDENCY COMMITMENT
The Ph.D. degree program in communication sciences and disorders requires a full-time commitment. Each student who is accepted into the program works on a daily basis with faculty who will help to hone skills and to sharpen the research focus. Furthermore, each student will be expected to conduct research and pursue scholarship activities that will inform classroom teaching and lead to meaningful presentations and publications. Consequently, applicants are required to sign a statement confirming their commitment to full-time status before they may be admitted to the program.

CURRICULUM
Upon admission to the Ph.D. program, students enroll in a series of required courses in the doctoral core, in the research core, and in the area of specialization. Ph.D. students are expected to maintain a cumulative GPA of at least 3.25 each semester. Upon completion of coursework, students must successfully complete written and oral comprehensive examinations to be eligible for candidacy.

Ph.D. students enroll in a minimum of six credits of independent study, extending over at least three semesters, under the supervision of their mentor. Typically, the focus of the independent study will be on the development of independent research skills through involvement with ongoing or forthcoming projects in the mentor’s research program. Each student will be expected to present at one or more scientific meetings and submit at least two manuscripts for publication in relevant peer-reviewed journals before graduating.

Students must complete an online Application for Graduation and Diploma form by the posted deadline at the beginning of the semester in which they intend to graduate.

COURSES
SPA 602. Communication Disorders. 3 Hours.
Survey of normal processes and communication disorders of speech, language, and hearing in children and adults; professions of speech language pathology and audiology; and job opportunities, designed for students not majoring in speech pathology and audiology.

SPA 604. Seminars Clinical Practice 1. 1 Hour.
PR: Consent. Includes topics necessary for successful completion of clinical practicum.

SPA 605. Seminars Clinical Practice 3. 1 Hour.
Examines professional issues in Speech-Language pathology. Will be graded on a Pass/Fail basis.

SPA 606. Seminars Clinical Practice 2. 1 Hour.
PR: Consent. Includes topics to enhance clinical skills of the beginning clinician.
SPA 607. Seminars Clinical Practice 4. 1 Hour. 
Explores employment settings and service delivery in Speech-Language pathology including medical and educational settings. Will be graded on a Pass/Fail basis.

SPA 608. Audiological Foundations. 2 Hours. 
Study of the knowledge and skills in audiology that speech-language pathologists need to treat individuals with hearing impairment.

SPA 610. Advanced Practice/SLP 1. 1,2 Hour. 
PR: Consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech-language disorders.

SPA 611. Advanced Practice/Audiology 1. 1,2 Hour. 
PR: Consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.

SPA 612. Advanced Practice/SLP 2. 1-3 Hours. 
PR: SPA 610 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech language disorders.

SPA 613. Advanced Practice/Audiology 2. 3 Hours. 
PR: SPA 611 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech-language disorders.

SPA 614. Advanced Practice/SLP 3. 1-4 Hours. 
PR: SPA 612 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech-language disorders.

SPA 615. Advanced Practice/Audiology 3. 4 Hours. 
PR: SPA 613 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.

SPA 616. Advanced Practice/SLP 4. 1-4 Hours. 
PR: SPA 614 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech-language disorders.

SPA 617. Advanced Practice/Audiology 4. 4 Hours. 
PR: SPA 615 or consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.

SPA 620. Neuphys of Speech/Language. 3 Hours. 
PR: SPA 320 and SPA 424 or consent. General and typographic anatomy and physiology of CNS, with special attention to motor and sensory systems as they apply to speech, hearing, and language.

SPA 622. Advanced Voice Disorders. 3 Hours. 
PR: SPA 422 or consent. Advanced study of the vocal and respiratory mechanisms; epidemiology, classification, etiology, symptomatology, assessment, prevention, and remediation of voice disorders.

SPA 624. Phonological Disorders. 3 Hours. 

SPA 625. Child Lang/Literacy Disorders. 3 Hours. 
Course provides skills to characterize, prevent, evaluate, and manage childhood communication disorders in collaboration with families, educators, and other service providers. Application of evidence-based practice and implementation of appropriate care to enhance language and literacy development is emphasized. Family, cultural, and linguistic diversity are addressed.

SPA 626. Experimental Phonetics. 3 Hours. 
PR: SPA 320 and SPA 340 or consent. Discussion of contemporary topics in the speech and hearing sciences, including acoustic, physiological, and perceptual phonetics.

SPA 628. Advanced Stuttering Disorders. 3 Hours. 
PR: SPA 422 or consent. Advanced study of the symptomatology, epidemiology, etiology, research findings, assessment, prevention, and remediation of stuttering and related fluency disorders.

SPA 630. Adult Neurogenic Comm Disorder. 3 Hours. 
PR: SPA 620. Explores normal adult language processes and the effect of normal aging on communication. Advanced investigation of the etiology, diagnosis, nature, and therapeutic approaches of aphasia, agnosia, apraxia, dysarthria, dementia, right hemisphere impairment, and traumatic brain injury.

SPA 632. Craniofacial Anomalies. 3 Hours. 
PR: SPA 624 or consent. Investigation of the etiology, diagnosis, nature, and therapy approaches of communicative disorders in persons with cleft palate.

SPA 634. Language Disorder Child Assmnt. 2 Hours. 
PR: SPA 324. Assessment procedures utilized to identify children with language disorders. Standardized tests and non-standardized analysis procedures are introduced.
SPA 635. Lang Disords-Children:Treatmnt. 2 Hours.
PR: SPA 634 or consent. Treatment procedures for children with language disorders are presented. Clinician-oriented and client-oriented approaches are emphasized.

SPA 636. Augmentative/Alternative Comm. 3 Hours.
Discussion of augmentative/alternative communication options for persons who are unable to meet their daily needs through natural modes of verbal, manual, or written communication. Demographics, assessment, and treatment of candidates for AAC interventions.

SPA 648. Central Auditory Disorders. 3 Hours.
PR: SPA 642 or consent. Pathology and audiometric site-of-lesion testing of the central auditory nervous system.

SPA 658. Auditory Processing Disorders. 3 Hours.
PR: Consent. A transdisciplinary approach to evaluation and management of auditory processing disorders in children and adults is presented. This course is for graduate students in speech-language pathology and audiology and professional speech-language pathologists and audiologists.

SPA 660. Neuropath of Speech/Language. 3 Hours.
PR: SPA 620. Explores methods of identifying and treating speech and language problems associated with nonprogressive and progressive neurological disorders.

SPA 662. Dysphagia. 3 Hours.
PR: Must be SPA major. Assessment and treatment of feeding and swallowing disorders in children and adults.

SPA 664. Diagnostics-Spch Lang Pathology. 3 Hours.
PR: Consent. Discussion of issues related to the diagnosis of speech and language disorders, including interviewing, etiological factors, and the assessment process. Supervised clinical practicum that concerns the diagnosis of speech and language disorders.

SPA 666. Updating Trends in AAC. 2 Hours.
Recent research in augmentative and alternative communication assessment and intervention.

SPA 668. Clinical Experience in AAC. 2 Hours.
Hands on AAC and AAC assessment and intervention experience at Camp Gizmo in Romney, West Virginia.

SPA 691A-Z. Advanced Topics. 1-6 Hours.
PR: Consent. Investigation of advanced topics not covered in regularly scheduled courses.

SPA 692A-Z. Directed Study. 1-6 Hours.
Directed study, reading, and/or research.

SPA 693A-Z. Special Topics. 1-6 Hours.
A study of contemporary topics selected from recent developments in the field.

SPA 694A-Z. Seminar. 1-6 Hours.
Special seminars arranged for advanced graduate students.

SPA 695. Independent Study. 1-6 Hours.
Faculty supervised study of topics not available through regular course offerings.

SPA 696. Graduate Seminar. 1 Hour.
PR: Consent. Each graduate student will present at least one seminar to the assembled faculty and graduate student body of his or her program.

SPA 697. Research. 1-15 Hours.
PR: Consent. Research activities leading to thesis, problem report, research paper or equivalent scholarly project, or a dissertation. (Grading may be S/U.)

SPA 698. Thesis. 1-6 Hours.
PR: Consent. This is an optional course for programs that wish to provide formal supervision during the writing of student reports (698), or dissertations (798). Grading is normal.

SPA 702. Anatomy/Physiology of the Ear. 3 Hours.
PR: Consent. Detailed study of the anatomy and physiology of the auditory and vestibular systems, and detailed investigation of physiological aspects of auditory and vestibular sensitivity.

SPA 704. Instrumentation in Audiology. 3 Hours.
PR: Consent. A study of instrumentation utilized in the evaluation of hearing disorders, including calibration, maintenance, minor repair, and use of such instrumentation. The course includes foundational study of electricity and electrical components.

SPA 706. Adv Audiological Assessment 1. 4 Hours.
PR: SPA 440 or consent. Audiological test procedures utilized in the evaluation of hearing loss including differential diagnosis, test administration and interpretation.

SPA 709. Audiology Clinic 1. 2 Hours.
PR: Consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.

SPA 710. Psychacoustics. 3 Hours.
PR: Consent. Advanced study of the psychology of hearing.
SPA 711. Audiological Assessment. 2 Hours.
PR: SPA 706. An advanced study of evaluation procedures utilized in the evaluation of hearing disorders, including adaptation of test procedures for varying clinical populations.

SPA 713. Adv Audiological Rehabilitation. 3 Hours.
PR: SPA 442 or consent. Identification of candidates for aural rehabilitation; evaluating degree of handicap; introduction to speech, language, education, and academic achievement of hearing impaired children; auditory, visual, and combined methods of rehabilitation; aural rehabilitation counseling.

SPA 714. Neuroanatomy/Physiology. 3 Hours.
PR: SPA 702. Advanced study of the structures of the auditory system and their function.

SPA 715. Amplification 1. 3 Hours.
PR: SPA 706 and Coreq: SPA 716. A study of amplification systems including assistive listening devices, hearing aid evaluation procedures, and outcome measures.

SPA 716. Amplification Lab 1. 1 Hour.
PR: SPA 706 and Coreq: SPA 715. Demonstration and introductory experience selecting, fitting and servicing basic hearing aids for individuals with hearing impairment.

SPA 717. Pathology of Auditory System. 3 Hours.
PR: SPA 702. Detailed study of the nature and etiology of auditory system pathologies from the external ear to the auditory cortex and their audiological manifestation.

SPA 718. Extrnshp-Spch Pathlgy/Audiolgy. 1-9 Hours.
Supervised clinical practicum experience in selected work settings to provide students with a concentrated orientation to the professional work place. Coordination and evaluation is under the direction of faculty.

SPA 720. Audiology Communication Skills. 3 Hours.
PR: SPA 711 or consent. Introduction to communicating within the discipline of audiology. Emphasis is placed in treating special needs individuals with hearing/balance disorders and their families/caregivers.

SPA 721. Amplification 2. 3 Hours.

SPA 722. Amplification Lab 2. 1 Hour.
PR: SPA 715 and SPA 716 and Coreq: SPA 721. Demonstrations and introductory experience selecting and fitting amplification systems for individuals with hearing impairment.

SPA 723. Pediatric Audiology. 3 Hours.
PR: SPA 706 or consent. A study of the development of the auditory response and hearing problems of early childhood. Students will learn the construction and application of specialized assessment techniques suitable for the pediatric patient.

SPA 725. Physiological Measures. 3 Hours.
PR: SPA 702 and SPA 711 and SPA 714 and Coreq: SPA 726. Advanced study of the principles, methods and applications of otoacoustic emission and evoked potential measurements of auditory function.

SPA 726. Physiological Measures Lab. 1 Hour.
PR: SPA 711 and SPA 714 and Coreq: SPA 725. Demonstration and introductory experience with otoacoustic emissions and evoked potential test procedures.

SPA 729. Audiology Clinic 2. 2 Hours.
PR: Consent. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.

SPA 734. Auditory Processing Disorders. 3 Hours.
PR: SPA 725. A study of auditory processing disorders, including evaluation methods and procedures, remediation theories and practices, as well as collaboration with other professions in management of the disorders.

SPA 736. Vestibular Evaluation/Rehab. 3 Hours.
PR: SPA 702 and SPA 714 and Coreq: SPA 737. Advanced study of balance system function and dysfunction, the principles and methods of evaluating balance, and rehabilitation techniques.

SPA 737. Vestibular Evaluatuin/Rehab Lab. 1 Hour.
PR: SPA 702 and SPA 714 and Coreq: SPA 736. Demonstration and introductory experience performing balance system evaluation and rehabilitation techniques.

SPA 738. Professional Issues. 2 Hours.
PR: Consent. Discussion of contemporary professional issues in audiology.

SPA 739. Audiology Clinic 3. 2 Hours.
PR: SPA 729. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with hearing disorders.
SPA 741. Audiology Bus Management Pract. 3 Hours.
PR: Consent. This course is intended to provide an overview of concepts involved in the development and management of audiology practices. Specific attention will be paid to business planning, financial and managerial accounting, marketing, human resources management, and other audiology practice management topics involved in daily operations.

SPA 743. Industrial Audiology. 3 Hours.
PR: SPA 704. A study of various noise parameters and measurement techniques. Industrial hearing conversation procedures and the effects of noise on man.

SPA 745. Clinic Supervision Seminar. 2 Hours.
An investigation into methods and techniques for clinical supervision in audiology.

SPA 747. Cochlear/Brainstem Implants. 3 Hours.
PR: SPA 711 and SPA 722. Admission to the Audiology Program. This course includes information related to the role and responsibilities of the audiologist on the cochlear and auditory brainstem implants team, including theoretical principles, pre-implant assessments, programming, implant orientation and troubleshooting, and other follow-up services.

SPA 749. Audiology Clinic 4. 3 Hours.
PR: SPA 739. Supervised clinical practicum that concerns the evaluation and treatment of children and adults with speech-language disorders.

SPA 750. Information Literacy in CSD. 3 Hours.
PR: Consent. Practical and theoretical issues in the use of the professional literature to advance research and practice in audiology and speech-language pathology.

SPA 752. Research Design in CSD. 3 Hours.
PR: Consent. Principles, concepts, and processes involved in effective classroom instruction and clinical supervision of students in audiology and speech-language pathology programs.

SPA 754. Teaching/Supervision in CSD. 3 Hours.
PR: Consent. A study of contemporary topics selected from recent developments in the field.

SPA 793A-Z. Special Topics. 1-6 Hours.
Special seminars arranged for advanced graduate students.

SPA 795. Independent Study. 1-9 Hours.
Faculty supervised study of topics not available through regular course offerings.

SPA 797. Research. 1-15 Hours.
PR: Consent. Research activities leading to thesis, problem report, research paper or equivalent scholarly project, or a dissertation. (Grading may be S/U.)
SPA 799. Colloquium. 1-6 Hours.
PR: Consent. For graduate students not seeking coursework credit but who wish to meet residency requirements, use the University's facilities, and participate in its academic and cultural programs. Note: Graduate students who are not actively involved in coursework or research are entitled, through enrollment in their department’s 699/799 Graduate Colloquium to consult with graduate faculty, participate in both formal and informal academic activities sponsored by their program, and retain all of the rights and privileges of duly enrolled students. Grading is S/U; colloquium credit may not be counted against credit requirements for masters programs. Registration for one credit of 699/799 graduate colloquium satisfies the University requirement of registration in the semester in which graduation occurs.

SPA 900. Professional Development. 1-6 Hours.
Professional development courses provide skill renewal or enhancement in a professional field or content area (e.g., education, community health, geology.) The continuing education courses are graded on a pass/fail grading scale and do not apply as graduate credit toward a degree program.

SPA 930. Professional Development. 1-6 Hours.
Professional development courses provide skill renewal or enhancement in a professional field or content area (e.g., education, community health, geology.) These tuition-waived continuing education courses are graded on a pass/fail grading scale and do not apply as graduate credit toward a degree program.