

consultant. Discussion will include applying physical therapy consultation services to individuals, business, schools, government agencies and/or other organizations.

PTH760 (2)

Applications in Clinical Research

Information presented on how to develop and present a publishable quality case study. It also includes the actual practice of doing an outcomes study in the clinical environment.

PTH765 (1)

Ethical & Legal Issues in Healthcare

Contemporary ethical issues are explored, including the relationships among peers, superiors, subordinates, institutions, clients, and patients. Illustrations include actual cases related to Christian biblical principles.

PTH768 (1)

Professional Compendium

Summarization of previous or added learning experiences relative to contemporary issues in physical therapy. An overview of the new graduate's role and responsibility to his/her patients and their families, employer, and community in the expanding physical therapy profession.

PTH770 (0)

Practical Comprehensive Examination

PTH788 \$(0)

Research Project Continuation

Students register for this continuation course while completing their capstone project and not enrolled in other program courses. Registration for this course indicates full-time status which includes library privileges and access to an advisor. Requires advisor approval.

PTH798 (1-10)

Capstone Experience

Serves as an essential outcome component to augment the professional development and new learning that occurs in didactic course work of the postprofessional doctoral degree and demonstrates the ability of the DPT/DScPT to make significant contributions to the profession and/or serve as a change agent in the field of physical therapy.

PTH799 (1-2)

Research Project (topic)

Provides students with guidelines and supervision for data collection, analysis, capstone project preparation and oral presentation.

PTH870 (0)

Written Comprehensive Examination

PTH880 (1)

PT Seminar

Preparation of a personal portfolio, assessment of the clinical experiences and preparation for professional licensure.

PTH881, 882, 883, 884 (4, 4, 5, 5)

Clinical Internship I, II, III, IV

Advanced full-time clinical experience (8-10 weeks each) in a variety of professional practice settings. One of the internships must be in outpatient orthopedics, inpatient, and a neurology setting. Thirty-six to forty hours per week. May be repeated.

SPEECH-LANGUAGE PATHOLOGY & AUDIOLOGY

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Faculty

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Academic Programs	Credits
BS: Speech-Language Pathology and Audiology	45
Minor in Speech-Language Pathology and Audiology	23

Mission

The Andrews University Department of Speech-Language Pathology & Audiology provides faith-affirming Christian education focusing on the knowledge and practice of speech-language pathology and audiology. Majors are expected to become knowledgeable about a variety of communication disorders, their etiology, and treatment; develop professional skills and demeanor; treat all patients with respect regardless of age, gender or ethnicity; provide effective clinical services; and successfully prepare for graduate education and service to the world.

Speech-language pathology and audiology are two disciplines that focus on communication problems. Speech-language pathologists work with individuals who have difficulties speaking fluently and clearly, understanding speech, using their voices, formulating language, and feeding and/or swallowing. Audiologists work with individuals who have difficulty with hearing, central auditory processing, dizziness, and tinnitus. Speech-language pathologists and audiologists work in a variety of settings including hospitals, schools, rehabilitation centers, and private practice.

The major in speech-language pathology and audiology at Andrews University offers pre-professional (undergraduate) education for those interested in becoming speech-language pathologists or audiologists. The undergraduate curriculum not only provides students with the prerequisite coursework for graduate school admission, but also with opportunities for clinical experience in the department and community. Individuals desiring to become speech-language pathologists must obtain a master's degree. Individuals desiring to become audiologists must obtain a clinical doctorate (AuD) degree. Details of graduate programs are available through the department office.

Students entering the program as sophomores (with a minimum of 25 credits) must have a cumulative GPA of 2.75 or above. Courses SPPA234 and SPPA270 are open to all students, including those with less than a 2.75 cumulative GPA; however a cumulative GPA of 3.0 is required for all upper division (300 and 400 level) courses. Juniors (with a minimum of 57 credits) deciding to transfer into the program must have a 3.0 minimum cumulative GPA. The major is designed so that it may be completed in four semesters during a student's junior and senior years.

Programs

BS: Speech-Language Pathology and Audiology (45)

SPPA234, 270, 280, 285, 310, 321, 322, 331, 332, 374, 425, 447, 455, 458, 471, and 472.

Cognates: PHYS225 (Meets the General Education Life/Physical Science requirement), STAT285

Recommended Courses: COMM436, ENGL460, BHSC230, BIOL100, 208, 221, PSYC301.

General Education Requirements

See professional program requirements, p. 51, and note the following **specific** requirements:

Religion: professional degree requirements

Language/Communication: professional degree requirements

History: professional degree requirements

Fine Arts/Humanities: professional degree requirements

Life/Physical Sciences: SPPA280 and PHYS225 required, plus a required biology course—either BIOL100 or BIOL208 are recommended

Mathematics: STAT285

Computer Literacy: INFS120 or pass competency exam

Service: SPPA250, 471 or 472

Social Sciences: professional degree requirements, plus PSYC301 recommended

Fitness Education: professional degree requirements

Minor in Speech-Language Pathology and Audiology (23)

SPPA234, 270, 280, 285, 321, 322, 331, and 374.

Students in education, communication, and behavioral science find a speech-language pathology and audiology minor helpful for increasing their awareness and understanding of people with speech, language, and hearing impairments. The minor also gives students with another major the necessary background to pursue graduate studies in speech-language pathology or audiology.

Courses (Credits)

See inside front cover for symbol code.

SPPA234 (3)

Introduction to Speech-Language Pathology and Audiology

An introduction to the professions of speech-language pathology and audiology, this course surveys the possible etiologies and characteristics of various communication problems encountered by clinicians. Language and communication differences in a multicultural society are also examined.

SPPA250 (2)

Fieldwork

Students participate in experiences in the community related to the professions of speech-language pathology and audiology. Open to majors who have applied one semester in advance. Repeatable. Does not apply to major or minor. Meets the general education fieldwork requirement.

SPPA270 (1)

Preclinical Observation

Students observe and write reports on a total of 25 hours of therapy and/or diagnostic sessions in the areas of speech-language pathology and audiology. They also participate in discussions of procedures used by the professionals during therapeutic interventions.

SPPA280 \$ (4)

Anatomy and Physiology of Speech and Hearing

The study of the anatomy and physiology of respiration, hearing, phonation, articulation, and the central nervous system. Students participate in a gross-anatomy human cadaver lab. Weekly: 3 lectures and a 2-hour lab.

SPPA285 (3)

Applied Phonetics

A study of the International Phonetic Alphabet and its application to speech and hearing sciences. Includes an introduction to acoustic theory and spectrographic analysis of speech. Skill is developed in transcription of both normal and disordered speech in children and adults.

SPPA310 (3)

Speech Science

An exploration of the theoretical information regarding speech perception and hearing, using concepts of physics, anatomy, and physiology. Clinical applications and management strategies for specific speech and hearing disorders will also be addressed. Prerequisites: SPPA234, 280.

SPPA321 (3)

Normal Language Development

A comprehensive look at the normal development of speech and language in the child; includes the areas of language prerequisite skills, phonology, morphology, semantics, syntax and pragmatics.

SPPA322 (3)

Child Language Disorders

A study of the factors contributing to the development of disordered speech and language. Includes traditional and more recent classification systems and a survey of characteristic disorders. Introduction to methods of evaluation and therapy. Prerequisite: SPPA321.

SPPA331 \$ (3)

Basic Audiology

Survey of the normal auditory system and the pathologies that affect its functioning. Includes the physics of sound, standard reference levels, and auditory perception. Methods of administering and interpreting pure tone, speech threshold, and speech recognition tests are presented in classroom and lab settings.

SPPA332 \$ (3)

Audiological Procedures

Continued study of auditory testing with an overview of differential diagnostic tests in the identification of auditory pathologies. Includes clinical masking and acoustic immittance measures. Techniques are presented for evaluating special populations including infants and young children, industrial, and the pseudo-hypacusic. Prerequisite: SPPA331.

- SPPA374** (3) in speech-language pathology and audiology; and permission of instructor.
Articulation and Phonology: Development and Disorders
 A survey of phonological development, and characteristics of articulation and phonology disorders. Discussion of etiologies, assessment, and management of these disorders is included. Prerequisite: SPPA285. \$ (2)
- SPPA415** (3) **SPPA472** \$ (2)
Seminar in Communication Disorders: _____
 Advanced study into professional and/or clinical aspects of speech-language pathology and/or audiology. Repeatable as content changes. **Clinical Practicum in Audiology**
 Supervised practice in test administration, report writing, and clinical management of persons with communication disorders related to audiology. Prerequisites: SPPA331,332, permission of instructor, and 25 hours of observation in speech-language pathology and audiology. Prerequisite or Corequisite: SPPA458.
- SPPA425** (3) **SPPA478** \$ (0)
Clinical Principles and Practices
 Discussion of principles underlying clinician/client relationships and interventions for communication disorders. Instruction in clinical management for speech-language pathology, including developing instructional programs, obtaining target behaviors, record keeping, and report writing. Prerequisites: SPPA321, 322. **Study Tour:**
 Travel to destinations relevant to individual programs of study. Classes will be selected from department(s) offerings. Fee may be required.
- SPPA435** (3) **SPPA480** (1-2)
Communication Development and Disorders for Classroom Teachers
 An overview of normal language acquisition and development, including a survey of typical communication disorders and their impact on students' academic success. Issues such as public laws and policies affecting the communicatively handicapped, language and communication differences in multicultural populations, and collaborative management models are also addressed. **Topics in _____**
 Selected topics in audiology and speech-language pathology. Consult current class schedule for topics offered each year. Repeatable as topics vary.
- SPPA447** (3) **SPPA495** (1-4)
Disorders of Voice and Fluency
 A study of the anatomy and physiology of the vocal mechanism; with emphasis on normal and abnormal processes of voice and fluency. Assessment and treatment principles of functional, organic and neurological voice pathologies will be addressed, as well as basic principles of stuttering diagnosis and therapy. Prerequisites: SPPA234, 280, 310. **Independent Research/Project**
 Arranged on a contract basis with a faculty member.
- SPPA455** (3)
Adult Neurogenic Disorders
 A study of neuroanatomy, as well as the interaction of language and cognition, and hemispheric specialization. This course also covers the classification, etiology, and assessment of individuals with speech, cognitive-linguistic, and swallowing disorders associated with central nervous system damage. Therapeutic principles are introduced. Prerequisites: SPPA234, 280, 321.
- SPPA458** (3)
Aural Rehabilitation
 A conceptual approach to the rehabilitation of the hearing-impaired. Methods of management which optimize the use of residual hearing with amplification or other assistive devices are considered for patients from birth to geriatric. Prerequisites: SPPA331, 332.
- SPPA471** \$ (2)
Clinical Practicum in Speech-Language Pathology
 Supervised practice in clinical management of persons with communication disorders, including administration of tests and implementation of therapy programs. Prerequisites: SPPA321, 322, 374; A content course in practicum area; 25 hours of observation