

# SPEECH HEARING SCIENCE (SPHS)

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## **SPHS 1371 Introduction to Speech Language Disorders 3 Credits**

**Department:** College of Fine Arts and Comm

An overview of the professions of audiology, and speech-language pathology.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 1373 Interprofessional Education 3 Credits**

**Department:** College of Fine Arts and Comm

The theoretical constructs of language including the analysis of content (semantics), form (syntax), morphology and use (pragmatics of language in normal communication).

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 2370 Phonetics 3 Credits**

**Department:** College of Fine Arts and Comm

Knowledge of American English sound system and syllable structure including proficiency in using the International Phonetic Alphabet for phonetic transcription.

**Restriction(s):**

Students with a class of Freshman may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3310 Language Acquisition 3 Credits**

**Department:** College of Fine Arts and Comm

The study of normal language development and its changes with maturation.

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3312 Hearing Anatomy, Physiology and Disorders 3 Credits**

**Department:** College of Fine Arts and Comm

The anatomy and physiology of the peripheral auditory mechanism. Also included are pathologies which affect the various anatomic structures.

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3314 Speech and Hearing Science 3 Credits**

**Department:** College of Fine Arts and Comm

Basic physics of sound, instrumentation and performance related to principles in speech and hearing sciences.

**Prerequisite(s):** SPHS 3312

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3316 Professional Report Writing 3 Credits**

**Department:** College of Fine Arts and Comm

Professional report writing for the speech and hearing sciences will be included in this writing intensive course. Specific formatting, correct use of terminology, and promotion of positive collegial interaction via written report will be explored.

May be Repeated for a maximum of 3 hours

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3318 Speech Anatomy & Physiology 3 Credits**

**Department:** College of Fine Arts and Comm

The anatomy and physiology of the speech mechanism. Includes scientific variables of speech and voice and the perceptual phenomena that results.

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3320 Language Disorders in Children 3 Credits**

**Department:** College of Fine Arts and Comm

This is an advanced undergraduate course designed to survey concepts critical to understanding etiology, diagnosis and treatment of language disorders in children.

**Prerequisite(s):** SPHS 3310 and SPHS 2370

**Restriction(s):**

Students with a class of Freshman or Sophomore may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 3324 Speech Sound Disorders in Children 3 Credits**

**Department:** College of Fine Arts and Comm

This is an advanced course designed to survey concepts critical to understanding etiology, diagnosis and treatment of speech sound disorders in children.

**Prerequisite(s):** SPHS 2370 and SPHS 3310

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

## **SPHS 4309 Clinical Practicum SLP-A 3 Credits**

**Department:** College of Fine Arts and Comm

A supervised clinical practicum for students enrolled in the Speech-language Pathology Assistant Program under the direction of a Lamar University faculty member and a certified, licensed speech-language pathologist. Students will obtain information regarding professional issues such as credentialing, licensure, reimbursement and other professional issues. Information will vary based on facility and clientele of the on-campus and off-campus sites.

May be Repeated for a maximum of 6 hours

**Prerequisite(s):** SPHS 4310

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 4310 Competencies and Strategies 3 Credits****Department:** College of Fine Arts and Comm

An overview of the roles and responsibilities of SLPAs and addressing their unique needs. Professional conduct, ethics, cultural and linguistic diversity and topics important to the health and safety of SLPAs and the individuals they serve. Overview of specific aspects of an SLPAs development, enhancement of clinical services through understanding the goals, lesson plans, data collection and note-writing. Understanding the key principles for SLPAs.

May be Repeated for a maximum of 6 hours

**Prerequisite(s):** SPHS 4336**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4332 Neurology 3 Credits****Department:** College of Fine Arts and Comm

The human nervous system with particular emphasis on neuronal structures and pathways related to communication and its disorders.

**Prerequisite(s):** SPHS 3312 and SPHS 3318**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4334 Audiology I 3 Credits****Department:** College of Fine Arts and Comm

An overview of the professional field of audiology, the professional terminology, testing techniques, and procedures of the evaluation of a patient; interpretation of evaluation data, and application of information to the (re)habilitation program of the patient.

**Prerequisite(s):** SPHS 3312 and SPHS 3314**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4335 Voice Disorders 3 Credits****Department:** College of Fine Arts and Comm

This is an introductory course level to voice disorders. The content includes overview of anatomy and physiology of voice production, theory on vocal function assessment, description of different vocal pathologies, procedures for prevention and intervention of voice problems.

**Prerequisite(s):** SPHS 3318**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4336 Clinical Processes 3 Credits****Department:** College of Fine Arts and Comm

An overview of clinical procedures and initial interaction with clinical patients.

**Prerequisite(s):** SPHS 2370 and SPHS 3310**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4337 Fluency Disorders 3 Credits****Department:** College of Fine Arts and Comm

This course is intended for upper level undergraduate students in SPHS. It provides the student with an introduction into the nature of various types of fluency disorders, with an emphasis on stuttering. It will provide basic information on theoretical concepts on behavioral characteristics, etiology, basic diagnostic procedures and therapeutic approaches for each type of disorder.

**Prerequisite(s):** SPHS 3318**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4338 Medical Speech - Language Pathology 3 Credits****Department:** College of Fine Arts and Comm

The major emphasis of this course is the evaluation and treatment of neurogenic communication disorders including aphasia, right hemisphere syndrome, traumatic brain injury, dementia, and motor speech disorders. Additional topics include specialized role of the SLP in the medical center setting, medical terminology and documentation, coding and billing, and interprofessional considerations of the healthcare settings.

**Prerequisite(s):** SPHS 4332**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4340 Audiology II 3 Credits****Department:** College of Fine Arts and Comm

A comprehensive survey of hearing evaluation procedures, and clinical evaluation techniques with emphases on hands-on application of skills.

**Prerequisite(s):** SPHS 4334**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4342 Audiologic Rehabilitation 3 Credits****Department:** College of Fine Arts and Comm

Explores the area of assistive listening devices, hearing aids, and other treatment and intervention methods and modalities. The course also includes an in-depth exploration of communication repair strategies, counseling techniques, and an overview of patient education and teaching methods and strategies.

**Prerequisite(s):** SPHS 3312 and SPHS 3314 and SPHS 4334 and SPHS 4340**Restriction(s):**Students with a class of Freshman, Junior or Sophomore may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 4350 Problems and Projects 3 Credits****Department:** College of Fine Arts and Comm

Special project course taken by supervising faculty and Department Chair approval.

May be Repeated for a maximum of 6 hours

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 4352 Counseling in Communication Disorders 3 Credits****Department:** College of Fine Arts and Comm

This course is a combination of lecture and role plays/discussions designed to facilitate learning counseling theory and techniques as it applies to clinic settings and experiences in communication disorders.

**Prerequisite(s):** SPHS 1371 and SPHS 2370 and SPHS 3310 and SPHS 3312 and SPHS 3314 and SPHS 3318**Restriction(s):**

Enrollment limited to students with a class of Senior.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5118 Auditory Perceptual Training 1 Credit****Department:** College of Fine Arts and Comm

This course will provide intensive ear training to improve auditory perceptual aspects of sound related to speech and hearing. Audio files and video clips related to voice analysis will be used to highlight auditory perception of voice. Students who successfully complete this course will deduct the correlations between auditory and acoustic analysis and the physiological basis of voice production through the exploration of voice samples.

May be Repeated for a maximum of 2 hours

**Prerequisite(s):** SPHS 5331 and SPHS 5314 and MUSI 5331 and MUSI 5314**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5216 Pedagogy of Performance 2 Credits****Department:** College of Fine Arts and Comm

This course will review theoretical aspects of teaching the singing voice. The material presented in this course will prepare the student to design and implement au courant voice lesson plans with recommendations including individual vocals and repertoire based on individual needs.

May be Repeated for a maximum of 2 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5217 Instrumental Analysis of Voice 2 Credits****Department:** College of Fine Arts and Comm

Voice evaluation is a process using subjective and objective tools to evaluate the parameters involved in voice production. This course will teach students about the parameters and measures of voice production that are critical to understanding laryngeal function during speech and singing.

May be Repeated for a maximum of 4 hours

**Prerequisite(s):** SPHS 5331 and SPHS 5314 and MUSI 5331 and MUSI 5314**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5225 Literature of vocology 2 Credits****Department:** College of Fine Arts and Comm

This course is an introduction to the literature of vocology. the course includes an overview of the research, resources and history of vocology. Students in this course will read and review books and articles written by the principle exponents of the field.

May be Repeated for a maximum of 4 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5228 Speaking Voice Habilitation 2 Credits****Department:** College of Fine Arts and Comm

This course will review basic voice disorders and demonstrate current principles of voice therapy and vocology. Empirical data of evidence-based approaches will be analyzed to understand the efficacy of these approaches.

May be Repeated for a maximum of 4 hours

**Prerequisite(s):** SPHS 5331 and SPHS 5314 and SPHS 5216 and SPHS 5118 and SPHS 5217 and SPHS 5225 and MUSI 5331 and MUSI 5314 and MUSI 5216 and MUSI 5118 and MUSI 5217 and MUSI 5225**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5301 Aphasia & Neurogenic Disorders 3 Credits****Department:** College of Fine Arts and Comm

Theory and treatment for organic speech disorders of neurologic origin.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5302 Stuttering 3 Credits****Department:** College of Fine Arts and Comm

Nature, evaluation and treatment of fluency disorders.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 5303 Voice Disorders and Cleft Palate 3 Credits****Department:** College of Fine Arts and Comm

Nature, etiology and treatment of disordered phonation and resonance imbalance secondary to laryngeal malfunction and craniofacial anomaly.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5304 Language Based Disorders of School Aged Children 3 Credits**

**Department:** College of Fine Arts and Comm  
Assessment and intervention procedures for elementary and secondary students with language and learning disabilities.  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5306 Language Disorders of Young Children 3 Credits**

**Department:** College of Fine Arts and Comm  
Assessment and intervention procedures for young children with language disorders include infants through preschoolers.  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5307 Articulation Disorders 3 Credits**

**Department:** College of Fine Arts and Comm  
Nature, evaluation, and treatment of articulation disorders.  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5309 Advanced Clinical Practicum 3 Credits**

**Department:** College of Fine Arts and Comm  
Advanced classroom practicum, diagnostics and therapy. May be repeated and must be taken each semester.  
May be Repeated for a maximum of 18 hours  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5310 Swallowing Disorders 3 Credits**

**Department:** College of Fine Arts and Comm  
The course focuses on differential diagnosis and treatment of swallowing disorders.  
May be Repeated for a maximum of 3 hours  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

Enrollment limited to students in the Speech Hearing Science department.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5314 Speech and Voice Science 3 Credits**

**Department:** College of Fine Arts and Comm  
Speech production is a complex process involving several systems in our body. this course will deal with articulatory, phonatory and resonatory science of speech production.  
**Prerequisite(s):** SPHS 3318 or SPHS 5331  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5315 Performing Voice Habilitation 3 Credits**

**Department:** College of Fine Arts and Comm  
This course will allow students to apply principles of anatomy, physiology, pedagogy and literature to the habilitation of the performing voice. Students will be provided with applicable tools and resources to aid them in their professional endeavors..  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5321 Research in Communication Disorders 3 Credits**

**Department:** College of Fine Arts and Comm  
Research design data analysis, and report writing pertinent to basic science and behaviors in communication disorders.  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5326 Motor Speech Disorders 3 Credits**

**Department:** College of Fine Arts and Comm  
The course focuses on the motor speech dysarthria and apraxia, and related disorders affecting the speech systems. Focus is on neurological correlates of muscle paralysis/paresis, differential diagnosis, and speech/communication rehabilitation.  
May be Repeated for a maximum of 3 hours  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

Enrollment limited to students in the Speech Hearing Science department.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5330 Comm Mgmt W/Severe Disabilities 3 Credits**

**Department:** College of Fine Arts and Comm  
This course includes assesment and intervention procedures for individuals with severe disabilities, with special emphasis on augmentative and alternative communication.  
May be Repeated for a maximum of 3 hours  
**Restriction(s):**  
Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5331 Anatomy and Physiology of Speech Production 3 Credits****Department:** College of Fine Arts and Comm

This course addresses structure and function of human communication and swallowing processes that involve respiratory, phonatory, resonatory and articulatory systems. This course includes both formative and summative assessments.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5350 Individual Study 3 Credits****Department:** College of Fine Arts and Comm

Independent study of special problems in communication disorders. May be Repeated for a maximum of 6 hours

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 5390 Thesis 3 Credits****Department:** College of Fine Arts and Comm

This first course in the two-course sequence is designed to equip master's level speech pathology students to begin to develop an advanced, high-quality research project in the field. The course will delve into specific research methodologies, study designs, and statistical analyses relevant to a given question related to speech-language pathology. Students will explore quantitative and/or qualitative research approaches, critically evaluate existing literature and gain hands-on experience in designing and implementing a research project including stating a research problem, stating a related research question and designing a methodology to answer the question. Emphasis will be placed on ethical considerations (including completion of ethical-conduct-of-research training and submission of IRB proposals), data collection techniques, and the application of statistical tools to analyze research data. By the end of the course, students will have a solid foundation in research methodology, positioning them to embark on their thesis projects with confidence.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Satisfactory/Unsatisfactory, Registrar do not use FN, Registrar do not use FS, Thesis/Dissertation

**SPHS 5391 Thesis 3 Credits****Department:** College of Fine Arts and Comm

Building upon the knowledge acquired in the first course, this second course in the sequence focuses on guiding master's level speech-language pathology students through the process of implementing their thesis projects. Students will execute the planned thesis project and address potential challenges in the implementation phase. The course will cover aspects such as participant recruitment, data collection, and analysis, allowing students to apply the theoretical concepts learned in the previous course to real-world scenarios. Throughout the semester, students will collaborate with faculty mentors, engaging in regular feedback sessions to ensure progress with their thesis project. By the end of this course, students will produce both a research paper and an oral presentation that will function in lieu of the comprehensive examination in accordance with policy as stated in the Lamar University Speech-Language-Pathology Master's program handbook.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Satisfactory/Unsatisfactory, Registrar do not use FN, Registrar do not use FS, Thesis/Dissertation

**SPHS 5403 Voice Disorders & Cleft Palate 4 Credits****Department:** College of Fine Arts and Comm

Nature, etiology and treatment of disordered phonation and resonance imbalance secondary to laryngeal malfunction and craniofacial anomaly.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6311 Introduction to Evidence-Based Practices and Instrumentation 3 Credits****Department:** College of Fine Arts and Comm

An introduction to evidence-based clinical practices and audiological instrumentation. Preparatory for clinical practicum, as students learn to perform and interpret routine audiological procedures. Students are required to locate and apply modern research to typical clinical evaluations. Didactic lectures and hands-on laboratory experience are combined. Professional expectations, infection control, scope of practice, and ethics are discussed.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS



**SPHS 6312 Introduction to Hearing Aids 3 Credits****Department:** College of Fine Arts and Comm

This course provides an introduction to amplification, acoustics, fitting principles, and related components. Direct practice in electroacoustic analyses of hearing aids, ear impressions, and hearing aid and ear mold modification and repair will be completed. Didactic lectures will be combined with hands-on experience to augment understanding of principles discussed.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6313 Acoustics and Psychoacoustics 3 Credits****Department:** College of Fine Arts and Comm

The study of acoustics (physics of sound) and psychoacoustics (perception of sound) are covered. The aim of this course is an understanding of the comprehensive physical, physiological, and cognitive issues related to production of sound and listening. Principles and application of acoustics and psychoacoustics as they apply to clinical audiology and communication are provided.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6318 Cochlear Implants 3 Credits****Department:** College of Fine Arts and Comm

Theoretical and applied principles in selection of and programming of multiple types of cochlear implants, candidacy evaluation and criteria, device considerations, and assessment of outcomes using evidence based outcome measure techniques. Mapping strategies (including hands on clinical patient interactions), outcome measures, aural rehabilitation and speech and language learning in populations using implantable devices are discussed.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6319 Advanced Clinical Practicum 3 Credits****Department:** College of Fine Arts and Comm

This graduate level practicum course is designed to provide graduate students with experience in assessment and management of children and adults with a variety of auditory, vestibular and related disorders. Students are assigned to on-campus and/or local off-campus clinical sites affiliated with the Department of Speech and Hearing Sciences to obtain needed experience. This course will be taken multiple times. May be Repeated for a maximum of 18 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6321 Advanced Hearing Aids 3 Credits****Department:** College of Fine Arts and Comm

This course is designed to build upon knowledge from SPHS 6312 (Introduction to Hearing Aids). It will further expand and augment skills for hearing aid and assistive device selection, programing, fitting, orientation, and certification for populations across the lifespan. Didactic lectures and direct lab experiences will be provided.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6322 Anatomy & Physiology of the Ear 3 Credits****Department:** College of Fine Arts and Comm

A study of human anatomy and physiology with emphasis on the auditory and vestibular system. This course will cover the outer ear, middle ear, inner ear and the central auditory nervous system. The content will also focus on conductive, sensory and neurological bases of hearing loss and the balance system.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6326 Research Methods 3 Credits****Department:** College of Fine Arts and Comm

This doctoral level course will introduce students to the origin and philosophies behind the qualitative and quantitative approach to empirical science. Specifically, the course will provide knowledge and skills on developing a quantitative research study considering the ethical aspects, choose and perform appropriate statistical test and draw appropriate conclusions considering the limitations of the study. May be Repeated for a maximum of 3 hours

**Restriction(s):**Undergraduate level students may **not** enroll.

Enrollment limited to students in the Speech Hearing Science department.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6331 Auditory Processing Disorders 3 Credits****Department:** College of Fine Arts and Comm

This course offers investigation of the theory, diagnosis, and management of auditory processing disorders (APD). Evidence-based practices for APD across the lifespan will be evaluated and discussed. APD controversies will also be considered. Management and treatment techniques will be demonstrated and examined.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6339 Externship in Audiology 3 Credits****Department:** College of Fine Arts and Comm

Practicum involving a full time placement in an external site after admission to candidacy.

May be Repeated for a maximum of 27 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6342 Electrophysiology 3 Credits****Department:** College of Fine Arts and Comm

This course will serve as an introduction to electrophysiologic measures used in the audiology clinic. Students will become familiar with the theories and basis of these measurement as well as clinical applications, protocols, and best practices. This course will cover Otoacoustic Emissions, Auditory Brainstem Response, Auditory Steady State Response, and Electrocochleography. Students will have opportunities to practice in laboratory settings.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6343 Pediatric Audiology & Genetics 3 Credits****Department:** College of Fine Arts and Comm

This course focuses on the issues of audiological and balance evaluations for pediatrics. Topics include risks for hearing loss, genetic transmission and syndromes related to hearing loss. Embryology as well as normal and abnormal development of the auditory system will be included. The course will detail screening and comprehensive test administration and interpretation for children from infancy through adolescence.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6350 Seminar 3-6 Credits****Department:** College of Fine Arts and Comm

Special study of a contemporary issue. Complement to Doctoral course requirements.

May be Repeated for a maximum of 9 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6352 Aural Rehabilitation 3 Credits****Department:** College of Fine Arts and Comm

This course offers in-depth examination of the provision of aural rehabilitation across the lifespan. Didactic lectures and direct experiences are utilized to gain greater perspective into the therapy, treatment, and intervention processes of hearing rehabilitation. Elements of amplification, communication training, patient education, and counseling are discussed.

May be Repeated for a maximum of 9 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6354 Vestibular Assessment and Management 3 Credits****Department:** College of Fine Arts and Comm

This course will cover anatomy, physiology and pathophysiology of the vestibular and related systems used for maintaining equilibrium and balance. Information on history, signs and symptoms, and self-perceived handicap to develop differential diagnosis will be discussed. It will go over the procedures used for diagnostic assessment of the vestibular system including informal evaluation, ENG/VNG, rotary chair, platform post-urography, VHIT &amp; VEMP.

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6361 Medical Audiology 3 Credits****Department:** College of Fine Arts and Comm

Study of hearing related pathologies and their influence on auditory/vestibular systems. Focus placed on etiology, signs and symptoms, and differential diagnosis of various pathologies. Also, included instruction and practicum for Cerumen Management.

May be Repeated for a maximum of 9 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS**SPHS 6362 Pharmacology 3 Credits****Department:** College of Fine Arts and Comm

This course identifies adverse drug reactions (ADR's) that can cause, mimic or exacerbate hearing loss and/or vestibular dysfunction. Issues also include ototoxic mediations and their uses, effects and mode of action. This course will provide the information necessary to understand the effects of prescription and nonprescription medications on the auditory and balance systems.

May be Repeated for a maximum of 6 hours

**Restriction(s):**Undergraduate level students may **not** enroll.**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6363 Differential Diagnosis 3 Credits**

**Department:** College of Fine Arts and Comm

Analysis and integration of anecdotal, subjective and objective information to form a meaningful audiometric interpretation of hearing disorders with appropriate intervention strategies.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6371 Advanced Rehabilitation and Case Studies 3 Credits**

**Department:** College of Fine Arts and Comm

This a graduate level course on the principles and treatment practices for aural and vestibular rehabilitation. Covered material will include the potential impact of tinnitus and vestibular impairment with models and management approaches and critical appraisal of the evidence base available in supporting clinical decisions. It is intended to prepare students for additional clinical learning and supervised and independent assessment.

May be Repeated for a maximum of 6 hours

**Prerequisite(s):** SPHS 6342 and SPHS 6354

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6373 Hearing Conservation 3 Credits**

**Department:** College of Fine Arts and Comm

This course will cover the risks of hearing loss due to noise exposure in children and adults with an emphasis on hearing loss prevention, hearing loss education and intervention. Interpretation and role of the audiologist in the Occupational Safety and Health Administration (OSHA) Hearing Conservation Act on noise level assessment and abatement.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6381 Practice Management 3 Credits**

**Department:** College of Fine Arts and Comm

This course addresses issues associated with audiology practice management. Students will be provided with the foundation necessary to initiate and manage a successful clinical practice. Individual management styles, selection and appraisal of office staff, marketing, budgeting and fiscal fitness will be discussed. Ethics and professional issues in various practice settings, including multicultural considerations, licensure, certification, etc. are discussed.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6382 Analysis of Professional Literature 3 Credits**

**Department:** College of Fine Arts and Comm

The aim of this course is to prepare students to become knowledgeable and skilled consumers of professional and academic literature by providing the means to evaluate the hypothesis, methodology results and conclusions drawn or inferred. The students will be introduced to evidence-based practice (EBP) in healthcare and they will review research and scholarly literature pertaining to hearing healthcare.

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS

**SPHS 6639 Externship in Audiology 6 Credits**

**Department:** College of Fine Arts and Comm

This course gives students hands on clinical experience in equipment use and patient interaction skills. A full-time well-rounded audiology externship setting will develop skills as an audiologist. The intent of the externship is to enhance students' critical thinking, reasoning, and problem-solving skills in real-world clinical experiences. Must be taken more than one semester.

May be Repeated for a maximum of 27 hours

**Restriction(s):**

Undergraduate level students may **not** enroll.

**Grade Mode(s):** Standard Letter, Registrar do not use FN, Registrar do not use FS