

HEARING AND SPEECH SCIENCES MAJOR

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Hearing and speech sciences is an inherently interdisciplinary field, integrating knowledge from the physical and biological sciences, medicine, psychology, linguistics, and education in order to understand human communication and its disorders. The department curriculum leads to the Bachelor of Arts degree. An undergraduate major in this field primarily provides the background for graduate training in Speech-Language Pathology or Audiology. However, it is also an excellent preparation for students who wish to pursue graduate study in other disciplines such as: occupational therapy, physical therapy, special education, or nursing. The student who wishes to work professionally as a speech-language pathologist or audiologist must obtain a graduate degree in order to meet national certification requirements and state licensure laws.

The hearing and speech sciences curriculum is designed in part to provide supporting course work for majors in related fields, so most course offerings are available to both departmental majors and non-majors. Courses offered by this department may be found under the following acronym: HESP. Permission of an instructor may be obtained to waive course prerequisites for non-majors wishing to take hearing and speech courses of personal interest.

Admission to the Major

The undergraduate program in HESP is not a limited enrollment major. The program is structured to provide adequate background for graduate training in Speech-Language Pathology, Audiology and Speech, Language or Hearing Sciences. It is considered to be a pre-professional program. It is important for HESP students to understand that in order to pursue a career as a Speech Language Pathologist or Audiologist, **you must continue on to graduate study**. Further information regarding education and training for these careers can be found on the American Speech-Language Hearing Association (<https://www.asha.org/students/>) website. Students should be advised that graduate school admissions are **highly competitive**; therefore students must perform to the best of their ability throughout the entire undergraduate curriculum in order to be considered for admittance into any graduate program. The coursework in Hearing and Speech Sciences requires careful sequencing. Material learned in early courses provides the foundation for later courses and some required courses are only offered during certain semesters. **For this reason most HESP courses have required pre-requisites and academic advising is crucial.** This also means that students transferring into the major late in their academic careers or transferring from a community college, may not be able to complete the major in four years.

Program Objectives

The Department of Hearing and Speech Sciences strives to provide state-of-the-art teaching, research, and clinical services in the areas of Audiology and Speech-Language Pathology.

Program Learning Outcomes

The undergraduate curriculum in Hearing and Speech Sciences is structured to provide a strong background for graduate training in Speech-Language Pathology, Audiology and Hearing, Language or

Speech Sciences. Although required courses at the undergraduate level are identical for all undergraduate majors, emphasis can be given to individual curricula through the selection of elective courses. Having completed the degree program, students should have acquired the following knowledge and skills:

1. Demonstrate knowledge in the areas of neuroanatomy and neurophysiology as they relate to typical and atypical speech, language, and hearing.
2. Demonstrate knowledge of typical language acquisition by completing an accurate language sample analysis.
3. Demonstrate knowledge retention of the information required to complete an accurate language sample.
4. Demonstrate the ability to write a behavioral objective containing 1) a "Do" or "action" statement, 2) a "Condition" statement, and 3) a Criterion statement.
5. Identify how culture and linguistic differences impact the prevention, assessment, and treatment of communication, speech, language, and hearing.
6. Engage in culturally-responsive practices that consider the needs and interests of clients and families.

REQUIREMENTS

Students majoring in Hearing and Speech Sciences must complete 33 semester hours of required HESP courses in order to complete their degree. In addition to these HESP courses, students must also complete 12 semester hours of supporting courses in psychology, statistics and other related fields. 14 credits in the major also overlap with the University of Maryland's General Education courses.

All courses required for the HESP major must be completed with a grade of "C-" or better. In addition, when a HESP course has a listed pre-requisite, this pre-requisite must have been completed with a grade of "C-" or better before registration in the subsequent course will be approved.

Because course sequencing is extremely important, advising for HESP majors is mandatory prior to registration each semester.

Course	Title	Credits
College Requirements (https://academiccatalog.umd.edu/undergraduate/colleges-schools/behavioral-social-sciences/#collegerequirementstext)		
Required Courses		
HESP120	Introduction to Linguistics (Also fulfills either DSHS or DSSP General Education Requirement)	3
HESP202	Introduction to Hearing and Speech Sciences	3
HESP300	Introduction to Psycholinguistics	3
HESP305	Anatomy and Physiology of the Speech Mechanism (Offered fall semester only)	3
HESP311	Anatomy, Pathology and Physiology of the Auditory System (Offered spring semester only)	3
HESP400	Speech and Language Development in Children	3
HESP403	Introduction to Phonetic Science	3
HESP407	Bases of Hearing Science (Offered spring semester only)	3
HESP411	Introduction to Audiology	3
Select one of the following Disorder Courses:		3
HESP402	Language and Phonological Disorders in Children (Offered spring semester only) ⁴	

HESP404	
HESP406	Acquired Neurogenic Communication Disorders in Adults ⁴
HESP498	Seminar (in Hearing and Speech Sciences, topics vary)

Select one of the following Elective Courses

HESP386	Experiential Learning ¹
HESP388	¹
HESP389	LEAP Classroom Internship ¹
HESP402	Language and Phonological Disorders in Children
HESP404	
HESP406	Acquired Neurogenic Communication Disorders in Adults
HESP413	Aural Rehabilitation/Habilitation ⁴
HESP415	Principles and Methods in Speech-Language Pathology ⁴
HESP416	Principles and Methods in Audiology (Offered only in the fall semester) ⁴
HESP417	Principles and Methods in Speech-Language Pathology and Audiology ⁴
HESP418	Clinical Practice in Speech-Language Pathology and Audiology ¹
HESP422	Neurological Bases of Human Communication ⁴
HESP469	Honor Thesis Research ¹
HESP498	Seminar (in Hearing and Speech Sciences, topics vary)
HESP499	Independent Study ¹

Additional HESP Major Requirements (These may also fulfill General Education Requirements)

PSYC100	Introduction to Psychology (fulfills DSHS General Education Requirement) ²	3
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Select one of the following Statistic courses: Fulfills FSAR General Education Requirement² 3

EDMS451	Introduction to Educational Statistics
PSYC200	Statistical Methods in Psychology
BIOM301	Introduction to Biometrics

Select two courses from Allied/Related Fields. The most recent list of courses fulfilling this requirement can be obtained from the HESP Academic Advisor 6

PHYS102 & PHYS103	Physics of Music and Physics of Music Laboratory ²	4
BSCI170/171 or BSCI103 OR any Biology course based on the biology of human systems ^{2,3}		3-4

Total Credits **49-50**

programs in which they are planning to apply, to ensure that they take all the courses which are pre-requisites for those programs.

Other Requirements for the Major

The coursework in Hearing and Speech Sciences requires careful sequencing. Material learned in early courses provides the foundation for later courses and some required courses are only offered during certain semesters. **For this reason most HESP courses have required pre-requisites and academic advising is crucial.** This also means that students transferring into the major late in their academic careers or transferring from a community college, may not be able to complete the major in 4 years.

GRADUATION PLANS

Click here (<https://fellercenter.umd.edu/academic-advising/forms-policies/graduation-plans/>) for roadmaps for graduation plans in the College of Behavioral and Social Sciences.

Additional information on developing a graduation plan can be found on the following pages:

- <http://4yearplans.umd.edu>
- the Student Academic Success-Degree Completion Policy (<https://academiccatalog.umd.edu/undergraduate/registration-academic-requirements-regulations/academic-advising/#success>) section of this catalog

¹ Internships, clinical or research experiences do not fulfill the Elective Course requirement.

² These courses also satisfy national certification standards (<https://www.asha.org/Certification/Course-Content-Areas-for-SLP-Standards/>) for Speech Language Pathology and Audiology.

³ Must be based on the biology of the **human** system and not plants or insects.

⁴ These courses are not required for the HESP major, however, some of these courses MAY be pre-requisite courses for some graduate programs. Students should consult the websites of the graduate