

Hearing and Speech Sciences

B.A. Program Handbook



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Introduction

This brief guide was written to provide a summary of much of the information which is useful in completing a Bachelor's Degree in Hearing and Speech Sciences at the University of Maryland, as well as information relevant to pursuing a professional clinical career in this field. The guide is not intended to replace either the Consolidated Undergraduate Catalog of the University or the Schedule of Classes, but rather to supplement them, and to summarize in one place much of the special information which is useful to a Hearing and Speech Sciences student. These more general sources should thus be consulted for additional information concerning academic regulations, University requirements, specific courses and the like. KEEP THIS GUIDE FOR HANDY REFERENCE!

Important Information

A Career in Hearing and Speech

The field of Speech-Language Pathology deals with the diagnosis and remediation of speech, language, voice and fluency problems in children and adults. The field of Audiology deals with the measurement of hearing and the rehabilitation of those with hearing impairments. **Both the American Speech-Language-Hearing Association (ASHA) and the State of Maryland require a master's degree for Speech and Language Pathology and a doctoral degree for Audiology as the minimum educational background for certification and licensure.** Research in the field is conducted by Ph.D. level individuals. In addition to these clinical fields, the experimental study of Hearing and Speech Sciences generally requires the Ph.D. as a minimal graduate degree.

Graduate School

The undergraduate curriculum in HESP is structured to provide adequate background for graduate training in Speech-Language Pathology, Audiology and Hearing, Language or Speech Sciences. It is important for HESP students to understand that **this major requires a graduate degree in order to pursue a career in this field.** Although required courses at the undergraduate level are identical for all HESP majors, emphasis can be given to individual curricula through the election of elective courses. 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 a graduate program. Students who find it necessary to repeat even a single course in the major are strongly advised to consider an alternative major.

Advising

Advising for HESP undergraduate majors is MANDATORY before registration each semester. Students will be notified by e-mail of their registration date. Any student may also check his/her registration status by going to **Testudo** and clicking on "Appointment and Registration status". After receiving the e-mail, students must schedule an advising appointment with the **HESP Undergraduate Advisor**. **REGISTRATION WILL BE BLOCKED IF YOU FAIL TO OBTAIN ACADEMIC ADVISING PRIOR TO REGISTRATION.** An advisor is available throughout the year, however, it must be recognized that the Undergraduate Advisor's schedule is limited and advising is through appointment only. Appointments for advising may be scheduled by going to **<http://www.bsos.umd.edu/hesp/hespapptcalendar/>**. For advising concerning course planning, evaluation of transfer credits, academic problems, or for special advisement, make an appointment with the **HESP Undergraduate Advisor** or the Director of Undergraduate Studies.

You will also be required to meet with the Undergraduate Advisor if you achieve a grade of D or less in any HESP class. Please be advised that under such circumstances, all pre-registered classes are subject to administrative drop until you have completed prerequisite classes successfully.

HESP Undergraduate Advisement Office
0131 LeFrak Hall
(301)405 - 4236

HESP Department

The HESP Academic Office is located on the ground level of LeFrak Hall, in LEF 0100. This office may be reached by telephone at (301) 405-4214.

Contacting Professors: All HESP faculty members encourage students to consult with them during their posted office hours. You may wish to discuss with them such topics as careers in Hearing and Speech Sciences, research opportunities in the field, graduate school selection, etc. It is recognized that students wish to become better acquainted with faculty members. Posted office hours provide an appropriate vehicle for such contact, as does e-mail, which may be easier in some cases. Faculty e-mail addresses are available at the [HESP website](#) and on virtually all class syllabi.

Email and Local Address Policy

It is the responsibility of the HESP student to keep the e-mail address that they use with the most frequency (be it AOL, Hotmail, etc.) updated with the University. Furthermore, HESP students are required to make sure that their local address (the address at which they reside during the school year) is current with the University. Students can do so by visiting [Testudo](#) and clicking on "Records and Registration" and then "Change Address/E-mail". If a student is having trouble, please see the [HESP Advisor](#) for help with this issue. ANY STUDENT WHO DOES NOT KEEP THEIR INFORMATION CURRENT WITH THE UNIVERSITY WILL NOT BE GIVEN SPECIAL CONSIDERATION IN CASES OF MISSED INFORMATION.

Additionally, students are advised to use their UMD e-mail addresses when corresponding with professors. Although these addresses are sometimes blocked by spam filters for various reasons, AOL, Hotmail, gmail, etc. addresses have a much higher probability of being **mistakenly tagged as spam**. If you do not hear back from a professor in a timely manner, attempt re-contact through an alternate e-mail address or by phone.

Becoming a HESP Major

To Declare or Change Major to HESP

To declare or change your major to HESP, complete the following steps:

1. Make an appointment with the [HESP Undergraduate Advisor](#) to learn more about the major and career opportunities in the hearing and speech fields. At the conclusion of the appointment, the Undergraduate Advisor will give the student a signed "Change of Major" form.
2. Attend an Academic Planning Workshop to learn how to develop an academic plan. The purpose of the academic plan is to help students learn their major requirements and earn their degrees in a timely manner. To sign up for a workshop, contact BSOS Advising (301-405-1697, 2148 Tydings Hall).
3. Submit the "Change of Major" form and the completed academic plan to BSOS Advising (2148 Tydings Hall). The academic plan will be reviewed and approved within 10 business days. An email will be sent to the student about the status of his/her plan. If a student's plan is denied, he/she will need to meet with a college advisor before proceeding.

Benchmarks

University-required benchmarks are intended to keep students on track with major requirements so they can complete their degrees in a timely matter. A student's record is reviewed after every two semesters since the student has declared HESP as his/her major. *Failure to meet any of the benchmark requirements results in **dismissal** from the Hearing and Speech Sciences major.*

NOTE: Semesters are defined as those taken once student has declared HESP as his/her major

By 2 semesters, a HESP major should have completed the following:

- Must complete with a grade of 'C' or higher: HESP120/LING 200, HESP 202, and PSYC 100

- Satisfactory completion of four CORE Distributive Studies courses, which can include HESP 120 or LING 200 (not both), and PSYC 100
 - Satisfactory completion of the Fundamental Studies Math and English requirement
- By 4 semesters, a HESP major should have completed all of the above as well as the following:*
- Must complete two 300-level HESP courses with a grade of 'C' or higher
 - Must complete one CORE Life Sciences (LS or LL) and one CORE Physical Sciences (PS or PL) with grades of 'C' or higher
- By 6 semesters, a HESP major should have completed all of the above as well as the following:*
- Must complete two additional 300- or 400-level HESP courses with a grade of 'C' or higher
- Additionally, by 6 semesters a HESP major is expected, but not required to have completed the following:*
- Must complete two additional 400-level HESP courses with a grade of 'C' or higher

Transfer Credit

A transfer student must go first to the [College of Behavioral and Social Sciences](#) for transcript evaluation. Evaluation of a student's transfer credits can be done only by the College. After the transfer student has been to the College Office, he/she then comes to the HESP Department for evaluation. The student must bring any catalogs, tests, course syllabi, course descriptions or other information pertinent to the HESP Undergraduate Advisor's determination of specific credits acceptable for meeting departmental requirements.

Non-matriculated Students

Students who already have a Bachelor's degree in another field and wish to complete the undergraduate prerequisites to pursue a graduate degree in HESP should complete the courses stated below. These undergraduate courses, combined with an accredited master's in Speech and Language Pathology or doctorate of Audiology curriculum meet the minimum degree requirements specified by [ASHA](#). HESP undergraduate prerequisites for these classes may be waived for non-degree seeking students with an advisor's approval. Academic advising is strongly encouraged for all non-matriculated students to ensure an appropriate and timely course planning. **COMPLETION OF THESE COURSES AT THE UNIVERSITY OF MARYLAND DOES NOT ENSURE ENTRY INTO THE UNIVERSITY OF MARYLAND HESP GRADUATE PROGRAM!**

Requirements for Speech-Language Pathology:

HESP 300	Introduction to Psycholinguistics
HESP 305	Anatomy and Physiology of the Speech Mechanism
HESP 400	Speech and Language Development in Children
HESP 403	Introduction to Phonetic Science
HESP 407	Bases of Hearing Science
HESP 417	Principles and Methods in Speech-Language Pathology and Audiology

Requirements for Audiology:

HESP 300	Introduction to Psycholinguistics
HESP 311	Anatomy, Physiology, and Pathology of the Auditory System
HESP 400	Speech and Language Development in Children
HESP 403	Introduction to Phonetic Science
HESP 407	Bases of Hearing Science
HESP 417	Principles and Methods in Speech-Language Pathology and Audiology

***Please note that [ASHA](#) requires additional math and science requirements that are not covered by the courses listed above. You must complete at least one math, one physical science and one**

biological science. For additional information, consult the [Advisor](#) or the ASHA website at www.asha.org and consult Certification requirements.

Planning Ahead

Once a student has declared HESP as his/her major, he/she must begin to plan ahead for the upcoming semesters immediately.

Disorder Courses

The HESP major requires each student to choose two disorder courses from the four disorder courses offered (HESP 402, 404, 406, and 410). It is important to decide which two disorder classes you would like to take early on, because not all four of the disorder courses are offered both fall and spring semesters, usually. In order to avoid entering your last semester of your senior year without fulfilling the two disorder courses requirement, you must plan when you are taking the two courses you choose ahead of time. Additionally, students should take into account that HESP 417 is only offered for fall semester and summer session II (usually) and that a prerequisite for HESP 417 is one disorders course. Therefore, students must have already taken at least one disorder course prior to the fall semester or SSII in which they plan to enroll in HESP 417. Students should keep in mind that although HESP 417 is not a major requirement, it is highly recommended for those planning to attend graduate school.

Study Abroad

Students considering taking a semester abroad should decide which semester they would like to study abroad and how they will fulfill their remaining major requirements. Since not all HESP classes are offered both fall and spring semesters, students need to plan which semester to go abroad around classes they still need to take. (Refer to the *Study Abroad* section for more information.)

Minors and Double Majors

The HESP major requirements (51 credits) combined with the CORE requirements (46 credits) equals a total of 97 credits. This total number of credits may vary for each student depending on how many CORE courses and HESP major requirement courses overlap. The University requires a total of 120 credits in order for a student to graduate. As a result, HESP students may have roughly 23 elective credits. Students can take advantage of their elective credits by declaring a minor or double major in additional areas of interest if they choose to do so.

Non-HESP majors who are considering declaring a minor in HESP should contact the [Undergraduate Advisor](#) to learn more about the HESP minor requirements. Students can also visit the [HESP website](#) to find out more information about a minor in HESP.

Graduate School

As mentioned in a previous section, this major requires graduate school in order to have a career in the field. Therefore once you declare the major you should begin to acquire and maintain a high GPA, as well as become involved in the department (research, NSSHLA, LEAP, etc.) so that you can obtain hands-on experience outside of the classroom.

Seniors

Senior Audit

All students should complete an audit before the beginning of their senior year. The purpose of the audit is to ensure that students have successfully completed both the University CORE/USP and major requirements for graduation. IT IS THE RESPONSIBILITY OF THE STUDENT TO SCHEDULE AN AUDIT.

Audit Procedures:

1. Schedule an appointment with the **HESP Undergraduate Advisor** to have him/her complete the HESP portion of the audit. Bring a printout of the audit to the appointment. To print out the audit, go to [Testudo](#), click on "Records and Registration," then click on "Degree Navigator (audit)." Follow the instructions, and print out a copy.
2. After the advisor completes the HESP portion of the audit, schedule an appointment with **BSOS** advising for a CORE/USP audit. (Note: You MUST have an appointment for an audit with BSOS. Call (301) 405-1697 for an appointment.)

Apply for Graduation

Do not forget to apply for your diploma the semester prior to or within the first 10 days of the semester of your anticipated graduation date. Go to <http://www.testudo.umd.edu/apps/candapp/> to apply for graduation.

Senior Clearance

The College of Behavioral and Social Sciences submits transcripts for graduating seniors to the HESP Department for departmental clearance for graduation. Should any problems arise concerning graduation, you will be contacted by the Undergraduate Advisor. If you anticipate problems concerning your clearance for graduation, it is your responsibility to see the advisor as soon as possible.

The Hearing and Speech Major Requirements

Major Requirements

A total of 51 credits is required for the Hearing and Speech major: 33 credits of required major courses, 6 credits of HESP electives and 12 credits from related fields as supporting courses. The required major courses (33 credits) are listed below with the typical scheduling for each course. Course schedules are subject to change. It is the student's responsibility to check program offerings each semester in the [Schedule of Classes](#)!

Required HESP Courses	Elective HESP Courses	Required Related Fields Courses
HESP 120 HESP 202 HESP 300 HESP 305 HESP 311 HESP 400 HESP 403 HESP 407 HESP 411 <i>Two of the following: HESP 402, 404, 406, 410</i>	HESP 386 HESP 417 HESP 418 HESP 420 HESP 422 HESP 469 HESP 498 HESP 499 (HESP 402, 404, 406, or 410)	PSYC 100 <u>Statistics:</u> (one of the following) PSYC 200 EDMS 451 SOCY 201 BIOM 301 <u>Allied/Related Fields</u> (3 credit class from each of the following areas): Area I: Social & Behavioral Sciences Area II: Biological & Physical Sciences
Credits: 33	Credits: 6	Credits: 12
Total Credits: 51		

Required HESP Courses

Course	Course Title	Prerequisite(s)/ (Recommended)	Semester(s) Offered
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HESP 120	Intro to Linguistics	--	Fall, Spring, SSI*
HESP 202	Intro to Hearing & Speech Sciences	--	Fall, Spring
HESP 300	Intro to Psycholinguistics	HESP 202/ (HESP 120 or LING 200)	Fall, Spring
HESP 305	Anatomy & Physiology of the Speech Mechanism	HESP 202	Fall, Spring
HESP 311	Anatomy, Physiology, & Pathology of the Auditory System	HESP 202	Fall, Spring, SSI
HESP 400	Speech & Language Development in Children	HESP 300/ (HESP 120 or LING 200)	Fall, Spring
HESP 403	Intro to Phonetic Science	HESP 305	Fall, Spring, SSI
HESP 407	Bases of Hearing Science	HESP 311	Fall, Spring
HESP 411	Intro to Audiology	HESP 311	Fall, Spring
Choose two of the following four disorder courses			
HESP 402	Speech Pathology I: Language Disorders in Children	HESP 400	Spring
HESP 404	Speech Pathology II: Voice and Fluency Disorders	HESP 305	Spring
HESP 406	Speech Pathology III: Aphasia and Neuromotor Disorders	HESP 300, 305	Fall
HESP 410	Organic Speech Disorders	HESP 305/ (HESP 403)	Fall
*SSI: Summer Session I			

HESP Electives

Students must take 6 credits from the following course offerings:

HESP 402, 404, 406, or 410

Whichever course(s) that have not yet been taken for HESP major credit may be taken as an elective credit.

HESP 417 – Principles and Methods in Speech Language Pathology and Audiology

Prerequisite: HESP 311, 411, & one disorder course (HESP402, 404, 406 or 410) *Offered:* Fall, SSII

This class is HIGHLY recommended for students planning to attend graduate school because it provides the mandatory observation experiences required by **ASHA** prior to graduate practicum enrollment at any accredited program.

HESP 418 - Clinical Practice in Speech Language Pathology and Audiology

Offered: Spring

HESP 418 is an elective for students in their senior year. The practicum allows students to participate in the department's Speech and Hearing Clinic under close supervision. Completion of HESP 418 is not considered a requirement for admission to a graduate program. Availability for HESP 418 is limited. Students must apply for HESP 418 the semester prior to anticipated registration. Students must meet the following requirements for admission to HESP 418:

1. Completion of 21 hours of HESP courses, including HESP 411, 417, and one disorder course (HESP 402 is preferred).
2. Completion of 20 hours of supervised observation (under HESP 417) prior to beginning practicum.
3. Student must have 12 hours of available time from 9:00am to 12:00pm and 1:00pm to 4:30 p.m. for participating in practicum/cores

4. Senior standing.
5. HESP GPA of 3.0 or better.

HESP 386 - Experiential Learning

Experiential Learning Internships are designed to give students "hands on" experience to help them integrate classroom learning with practical experience, gain career experience, make professional contacts, observe professionals in the field, experience different educational, work or cultural environments, and clarify personal and professional goals.

Regulations:

1. To be eligible for a 386 credit, a student must have earned 56 credits, including 12 credits at UMCP and 3 credits in HESP.
2. HESP 386 may be taken by any student with the sponsorship of a HESP faculty member in accordance with department regulations.
3. HESP 386 is a variable credit course; however, departmental policy dictates that only 3 credits may be applied toward the HESP majors. Each faculty member has a sponsoring code for HESP 386 that must be used to register for the experience. Please consult the [Advisor](#) or the HESP main office before registering.
4. A 386 course may be taken in only one department per semester.
5. HESP 386 must be taken using the regular grading method in order to serve as a HESP elective. HESP 386 may be taken with the Pass/Fail grading option if the student does not wish to count the credits toward the HESP major elective requirement.
6. Outside sponsors must provide evidence of current [ASHA](#) certification if they are functioning as SLPs or Audiologists; other types of sponsors are permissible with HESP faculty sponsor approval.
7. Typically, 386 will require a graded capstone assignment, such as a research paper relevant to the student's experiences.
8. We regret that HESP faculty cannot identify external HESP 386 experiences. Students are responsible for locating externships.

Mandatory Learning Proposal:

Completion of a Learning Proposal, which may be obtained at the Experiential Learning Program (ELP) office, is mandatory for all students taking HESP 386, or any 386 course. The Learning Proposal is a contract which spells out and clarifies the nature of the student's placement, learning objectives, specific responsibilities, supervision, in-service training, method of evaluation, and contact with faculty sponsor. The development of the Learning Proposal must include the student, the faculty sponsor and the on-site supervisor, all of whom must sign the finished proposal. Once the proposal is complete, it must be submitted to the HESP Advisor for approval. Students must then take the Learning Proposal to the Registrar's office to register for the course. Students will not be permitted to register for the course without the Advisor's approval stamp.

For further information, contact the [HESP advisor](#).

HESP 420 - Deafness and Sign Language

Offered: SSI

HESP 422 - Neurological Bases of Human Communication

Prerequisite: HESP305 or permission of instructor *Offered:* Spring

HESP 469 - Honors Thesis Research

HESP 498 - Seminar in Hearing and Speech Sciences

HESP 498 is used by the department to periodically offer current topics in the field. Normally there will be a one letter suffix. Topics and scheduling for this course varies. Students should consult the [Schedule of Classes](#) for current offerings.

HESP 499 - Independent Study

HESP 499 may be taken for variable credit. For an independent study, the student must secure prior faculty approval before registering for this course. The student is expected to discuss with the sponsoring faculty member the nature of the requirements and number of credits received for course completion. Each faculty member has a distinct section code for registration. Consult the department before registering for this course. HESP 499 may be taken with the Pass/Fail grading option if the student does not wish to receive credit toward the HESP elective major requirement.

Supporting Course Work

Psychology: All students must take PSYC 100 (Introduction to Psychology).

Statistics: The student must select one three credit statistics course.

The student may choose from the following:

PSYC 200 – Statistical Methods in Psychology

Prerequisite: PSYC100 and (MATH111 or MATH140 or MATH220)

EDMS 451 – Introduction to Educational Statistics

Junior Standing

SOCY 201 – Introductory Statistics for Sociology

Prerequisite: SOCY100 and MATH111 or equivalent

BIOM 301 – Introduction to Biometrics

Prerequisite: MATH113 or MATH115

STAT 100 will not satisfy the departmental statistics requirement. PSYC 200, SOCY 201 and BIOM 301 have prerequisites which must be satisfied before a student may register for them.

Allied/Related Fields: In addition to a statistics course, the student will take 6 credits from course offerings in Allied/Related fields. One three credit course must be selected from Area I and one three credit course must be selected from Area II. (*Prerequisites are italicized and included in parentheses.*)

Area I Offerings: Social & Behavioral Sciences

AASP 202 - Black Culture in the United States

ANTH 260 - Sociocultural Anthropology and Linguistics

COMM 107 - Basic Principles of Speech Communication

EDCI 434 - Methods of Teaching English to Speakers of Other Languages

EDCI 467 - Teacher Writing (*permission*)

EDCI 473 - Environmental Education

EDCP 420 - Education and Racism (CORE Cult. Div.; *permission*)

EDHD 306 - Research Methods in Human Development (USP-D)

EDHD 320 - Human Development through the Lifespan

EDHD 400 - Introduction to Gerontology

EDHD 411 - Child Growth and Development

EDHD 413 - Adolescent Development

EDHD 445 - Guidance of Young Children (*PSYC 100 or permission*)

EDMS 410 - Principles of Testing and Evaluation (*junior standing*)

EDSP 210 - Introduction to Special Education (*freshman or sophomore standing or permission*)

EDSP 376 - Fundamentals of Sign Language

EDSP 420 - Characteristics of Infants and Children (*permission*; practicum required)

EDSP 470 - Introduction to Special Education (non-major version)

EDSP 476 - Communication with Sign Language (*EDSP376 or permission*)

FMST 330 - Family patterns (*junior standing*)

FMST 332 - The Child in the Family (*FMST105 or PSYC100*)

FMST 431 - Family Crises and Intervention (*PSYC 100*)

FMST 432 - Intergenerational aspects of family living (*PSYC100; and {SOCY100 or*

SOCY105}; and FMST332 {or a comparable development course})
 FMST 447 - Disabled Person in Family and Community
 FMST 460 - Violence in Families (PSYC100 or SOCY100 or SOCY105)
 FMST 487 - Legal Aspects of Family Problems
 HLTH 230 - Introduction to Health Behavior
 HLTH 450 - Health of Children and Youth
 LING 311 - Syntax I (LING240)
 LING 312 - Syntax II (LING311)
 LING 321 - Phonology I (LING240)
 LING 322 - Phonology II (LING321)
 LING 410 - Grammar and Meaning (LING 311 or permission)
 LING 455 - Second Language Acquisition
 PSYC 221 - Social Psychology (PSYC100)
 PSYC 341 - Introduction to Memory and Cognition (PSYC100)
 PSYC 353 - Adult Psychopathology (permission; USP-D)
 PSYC 354 - Cross-Cultural Psychology (PSYC100)
 PSYC 355 - Child Psychology (USP-D; PSYC100)
 PSYC 357 - Psychology of Adulthood and Aging (PSYC100)
 PSYC 424 - Communication and Persuasion (PSYC200 and PSYC221)
 SOCY 230 - Sociological Social Psychology
 SOCY 241 - Inequality in American Society (CORE Divers.; USP-D)
 SOCY 424 - Sociology of Race Relations (6 credits SOCY or permission)
 SOCY 430 - Sociology of Personality (6 credits SOCY or permission)
 SOCY 443 - Family and Society (6 credits SOCY or permission)
 SOCY 467 - Sociology of Education (6 credits SOCY or permission)

Area II Offerings: Biological & Physical Sciences

BSCI 201 - Human Anatomy and Physiology I (BSCI105 or equivalent)
 BSCI 202 - Human Anatomy and Physiology II (BSCI201 or permission)
 BSCI 338d - Special Topics in Biology: Developmental Neurobiology (BSCI230)
 BSCI 436 - Drug Action and Design (CHEM243 or permission)
 BSCI 445 - Neurophysiology
 BSCI 446 - Neural Systems (BSCI230)
 CMSC 102 - Introduction to Information Technology
 KNES 300 - Biomechanics of Human Motion (BSCI201)
 KNES 333 - Physical Activity for Students with Special Needs
 KNES 370 - Motor Development
 KNES 385 - Motor Control and Learning
 LING 240 - Language and the Mind (CORE Human; USP-D)
 LING 350 - Philosophy of Language (PHIL170 or PHIL173 or PHIL371; or LING311)
 PHIL 170 - Introduction to Logic
 PHIL 250 - Philosophy of Science
 PHIL 271 - Symbolic Logic I (PHIL170 or CMSC250)
 PHIL 360 - Philosophy of Language (PHIL170, PHIL173, or PHIL271)
 PHIL 341 - Ethical Theory (six credits PHIL; junior standing)
 PHYS 102/3 - Physics of Music - NOT accepted in lieu of HESP 407 (placement in MATH110 or higher)
 PHYS 111 - Physics in the Modern World
 PHYS 121 - Fundamentals of Physics I (MATH112 or MATH115)
 PHYS 122 - Fundamentals of Physics II (PHYS121 or equivalent)
 PSYC 301 - Biological Bases of Behavior (USP-B; BSCI105 and PSYC100)
 PSYC 310 - Perception (PSYC100; and {BSCI105, BSCI106, CHEM103 or PHYS121})

Note: These classes are subject to change of prerequisites and availability; other classes may appear in the [Schedule of Classes](#) which might be acceptable additions. If you identify a course that you believe

should fulfill an Area requirement, consult the **Advisor** to see if permission can be granted for this registration.

Minimum Grade Requirements for HESP & Repeat Policy

The University and the College of Behavioral and Social Sciences require that the student maintain an overall average of 2.0 and an average of 2.0 for major supporting courses. In addition, the following rule governs graduation with a major in HESP:

A grade of C or better must be earned in the 33 credits to be applied toward the HESP major and in the 12 credits of supporting courses or a course must be repeated until a C or better is earned. No HESP class may be repeated more than once.

***Note: If a HESP course requires another HESP course as its prerequisite, the prerequisite course MUST be completed with a grade of C or better before the student will be allowed to take the next HESP course. ***

Repeat Policy

University of Maryland policies state that any course (HESP or otherwise) may only be repeated ONCE. If a student enrolls in a class and subsequently drops that class with a "W", then that is counted as the first attempt and students must then pass that course on the second enrollment. Additionally, there is a limit to the number of courses that a student may repeat, depending on class standing. Special exceptions may be granted by the Dean of the College, given exceptional circumstances; **however, it should be advised that waivers to this policy are rarely, if ever, granted by the HESP department.**

Pass/Fail Policy

NO major, supporting, USP or CORE courses may be taken with the Pass/Fail grading option. Please note, however, that any of these courses MAY be taken Pass/Fail as long as they are NOT needed to fill any of the above stated requirements.

Suggested Course Sequences for HESP Majors

Option 1

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Summer	Senior Fall	Senior Spring
120	300	305	400	407	411		417	Disorder
202	311		403	Disorder				Elective

Option 2

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Summer	Senior Fall	Senior Spring
	120	305	400	407	411		417	Disorder
	202	300	403	Disorder				Elective
	311							

Option 3

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Summer	Senior Fall	Senior Spring
		120	300	400	Disorder		417	Disorder

		202	311	403	411		407	Elective
		305						

Option 4

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Summer	Senior Fall	Senior Spring
			120	305	Disorder	403	417	Disorder
			202	400	411			Elective
			300	407				
			311					

Option 5

Freshman Fall	Freshman Spring	Sophomore Fall	Sophomore Spring	Junior Fall	Junior Spring	Summer	Senior Fall	Senior Spring
				120	311	403	417	407
				202	400		411	Disorder
				300	Disorder			Elective
				305				

Note that summer coursework can be included in these schedules. Because of prerequisite requirements, students declaring the HESP major late (e.g., during the senior year), should expect to take summer classes in order to graduate within four years. Typical course offerings in the summer sessions are HESP 120, 311, 403, 420, and 386/499. Additional courses are often offered as well, depending upon need and instructor availability. Summer courses are posted at least five months prior to the summer sessions. Interested students should consult the office or [Testudo](#) for further information.

All students PLEASE NOTE: It is highly recommended that students take 202 before attempting other HESP course work in order to determine if this is the major they want to pursue. HESP 202 also provides a framework and important background information for the rest of the HESP course work. Students who begin major course work in the junior year must follow plan 5 in order to meet prerequisite requirements for the HESP 417/418 elective sequence.

HESP Graduate Courses

HESP undergraduate students may take a graduate course offered by the HESP department as an elective. *Please note that credit will be granted either for undergraduate or graduate credit, not both!* Students must obtain prior permission from the instructor and the department before enrolling in a HESP graduate course. Graduate course offerings are listed in the back of this booklet.

Consortium Courses

Classes can be taken at other universities in the Washington Metropolitan area such as: American University, The Catholic University, Gallaudet University, George Mason University, George Washington

University, Georgetown University, Howard University, Marymount University, Mt. Vernon College, Trinity College and the University of the District of Columbia. Students enrolled in these institutions are able to attend certain classes and pay tuition at their home campus. Any eligible degree seeking student may participate. Contact the Consortium Coordinator at UMCP at 301-314-8239 (1101 Mitchell Building) or go to <http://www.testudo.umd.edu/soc/consortium.html> for more information and appropriate forms. This option may be particularly helpful for students wishing to take courses in Deaf Education. **Appropriate consortium classes may be taken for HESP elective credits.** Please check with the **HESP Advisor** before enrolling in any consortium classes for HESP elective credits.

Departmental Honors in Hearing and Speech Sciences

The objective of the HESP Honors program is to encourage and recognize superior academic achievement and scholarship by providing opportunities for interested, capable, and energetic undergraduates to engage in independent study. A research project will be conducted under the supervision of a faculty mentor and will result in an Honors thesis.

Eligibility

Students must have a GPA of 3.5 or higher, overall and in the major, to be eligible for this option.

Declaring the Honors Option

To enable timely completion of the program, the honors option should be declared by the pre-registration period before the semester in which the student wishes to enroll. To initiate the honors option, students first construct a proposal of study for completion of the option with the Departmental Honors Coordinator (Undergraduate Director). The DHC helps the student identify appropriate coursework, the selection of an appropriate thesis advisor, and track progress through completion of the honors option.

Coursework

Students must complete 9 credits of HESP graduate courses or HONR seminars in a subject that supports the proposed course of study or some combination of the two.

- The courses must be approved in advance by the thesis advisor.
- The courses may include up to two Honors seminar courses.
- The courses may include graduate courses, provided the student first gains permission of the course instructor and the Assistant Dean of the College offering the course before enrolling. (HESP graduate courses are listed under HESP Course Descriptions.)

In addition, students will complete 6 credits of HESP Honors research (HESP 469) that culminates in an oral defense of the thesis. Three of the HESP Honors research credits may be used to fulfill the CORE Advanced Studies requirement upon successful completion of the thesis defense.

Thesis

The thesis may only be initiated after the completion of the following:

1. The completion of the first 6 credits of the required honors coursework, with a grade of B or better in each class.
2. A course from the ENGL 391-395 sequence with a grade of A.
3. Completion of an approved course in statistics (PSYC 200, SOCY 201, EDMS 451 or BIOM 301 or equivalent) with a grade of B or better.

The student must also identify and secure the approval of a thesis advisor within the department. The thesis advisor must be selected from the department's full-time faculty holding the doctoral degree. Thesis advisors may request a writing sample from the candidate before agreeing to serve as the student's thesis advisor.

The student and advisor will assemble an honors thesis committee for approval of the thesis following its oral defense. All full-time instructional faculty, regardless of terminal degree, and all part-time faculty

holding the doctoral degree are eligible to serve on the thesis approval committee. The committee must consist of no fewer than three faculty members, including the advisor.

The honors thesis is taken for six credits, which must be spread over at least two semesters of registration [HESP 469, Honors thesis].

Completion of the Option

Students must maintain a 3.5 GPA overall and in the major, to graduate with Honors, and have a majority vote of Honors (or High Honors) from the thesis committee.

Please see the [Undergraduate Advisor](#) for more information on the HESP Honors Option.

Departmental Activities and Programs

National Student Speech-Language and Hearing Association (NSSLHA)

NSSLHA is an independent organization for students interested in speech, language and hearing processes and disorders. NSSLHA is recognized by the American Speech-Language-Hearing Association ([ASHA](#)) – the licensing organization for SLPs and Audiologists. NSSLHA provides access to professional literature, opportunity to interact with professionals, assistance in the transition from academic to professional life derived from participation in NSSLHA activities and programs, and financial assistance for qualified students. The University of Maryland has an active NSSLHA chapter and offers membership to any interested student.

Maryland Student Researchers

The [Maryland Center for Undergraduate Research](#) (MCUR) provides students with an opportunity to work with faculty members on a one-to-one basis as a research assistant. The student is expected to work 4-6 hours per week, for one semester. Although the Maryland Student Researchers program does not count for academic credit, this experience is noted on your transcript.

Qualifications: students must have a minimum GPA of 2.0 and must have completed 15 credits at University of Maryland, College Park. Applications for MCUR are available in the [Office of Undergraduate Studies](#) in 2130 Mitchell. Complete the Student Research Resume Form, then find a faculty member whose research interests you (we suggest consulting faculty profiles at the [HESP website](#)). A directory is available at Mitchell, as well as on the [MCUR website](#), but any faculty member may participate in this program. After consulting with a faculty member, complete the Faculty-Student Research Agreement. Send a copy of the two forms to the Office of Undergraduate Studies. A description of your work will be added to your transcript after completing the research. For further information, call (301) 314-6786 or (301) 405-9363. Please note that individual professors may have special requirements for participation in the program. It is advised that you contact the professor that you wish to work with before beginning the Maryland Student Researchers program.

The Undergraduate Teaching Assistant Program (UTA)

The [UTA](#) program is an exciting teaching-learning experience. This program is a cooperative effort of the [Office of Undergraduate Studies](#) and the College of Education. This program allows the student to develop a close working relationship with both professors and fellow students. As part of this experience, the student participates in a concurrent seminar which complements the UTA experience (EDUC 388: Guided Experiences in College Teaching I and EDCI 498: Special Problems in Teaching Education). Students earn a total of 4 credits.

A mutual agreement is formed between the mentor and the prospective UTA. The assistantship typically requires an 8-10 hour per week commitment and 2 hours per week for seminar meetings. The role of the TA generally includes: providing tutorial assistance; leading discussions; reviewing for exams; lecturing; preparing and evaluating exams.

To be selected for the program, the student must have a junior standing, a cumulative GPA of 3.0, and a grade of A in the course of assistance. For more information go to the [UTA website](#), or contact the Office of Undergraduate Studies, 2130 Mitchell Building, (301) 405-3154.

The Language-Learning Early Advantage Program (LEAP)

LEAP is an individualized preschool program with a strong classroom language-based focus. LEAP's mission is threefold: to train speech-language pathology graduate and undergraduate students; to provide treatment to preschool-age children between the ages of 3 and 5 years who demonstrate speech and/or language delays in the absence of other handicapping conditions; and to conduct research. Undergraduate students are very active in the classroom as well as the curriculum planning. Students interested in participating in LEAP must be available a total of about 10 to 11 hours a week on Monday, Wednesday, and Friday for either AM or PM LEAP. Contact the [Undergraduate Advisor](#) to obtain more information and an application for LEAP the semester prior to the one you wish to become a LEAP participant.

Tutorial Service

NSSLHA maintains a list of students who volunteer to tutor students in HESP courses. For further information about this service, contact the department office for the name of a tutor. Students interested in becoming a tutor should contact a NSSLHA officer.

The National Student Exchange

The University of Maryland at College Park participates in the National Student Exchange, a program that allows students to attend another school in the NSE network at little or no additional cost than present tuition at this campus. Thirty-six states, as well as Puerto Rico and U.S. Virgin Islands, comprise the NSE network. Students typically select schools that provide a particular academic interest or diversification in addition to the opportunity to live in a different geographical and cultural setting.

Participation in the program requires full-time student status at the home campus at the time of application and completion of a full-time course of study in the term prior to exchange. Students must be in good standing as defined by the home campus and have a minimum, cumulative grade point average of 2.5 at the time of application and at the completion of the term prior to exchange. Most students exchange during their sophomore or junior years and may participate in the NSE program for up to one academic year. **Please check availability of courses that match HESP major requirements in advance before selecting this option, or adjust schedules to accommodate this option accordingly.**

Study Abroad

Students interested in studying abroad should contact the [Undergraduate Advisor](#) to determine how to fit a semester abroad into his/her academic plan. The Undergraduate Advisor will be able to identify places where a student can continue taking courses that will count towards his/her HESP major requirements and/or supporting coursework (i.e. England, Canada, Australia, Israel, France, etc.). Major class work acceptable for transfer is readily available in Australia, England, and Canada. Most countries offer programs at only a few universities; if you need or want to take major courses while abroad, we suggest you identify Universities that are appropriate in a country, rather than select a host city/University at random. The Undergraduate advisor may also refer students to meet with the chairman of the HESP department in order to learn more about study abroad programs that are available to them. It is important to contact the advisor as soon as a student has made the decision to study abroad in order to avoid any HESP major requirement conflicts during his/her senior year. Additionally, the junior year may not be the best time to travel for all HESP majors. Depending upon previous coursework and remaining requirements, other semesters may be preferable.

For more information about studying abroad go to the [University of Maryland Study Abroad](#) website.

Study Abroad Office
1101 Holzapfel Hall
Telephone: (301) 314-7746
Fax: (301) 314-9135
studyabr@umd.edu
Office hours: Monday - Friday 8:30 a.m.- 4:30 p.m.

Preparing for Graduate School

The professions of Speech-Language Pathology and Audiology require graduate education. There are many graduate school programs in Speech-Language Pathology/Audiology/Hearing and Speech Science in the United States. Each program has somewhat different requirements for admission. A list of graduate programs in Speech-Language Pathology and Audiology is published yearly by the American Speech-Language and Hearing Association ([ASHA](#)). Since 1994, the Certificate of Clinical Competence, the CCC, a necessary professional credential, is only available to students earning a graduate degree from accredited programs.

Job requirements in the field and competition for acceptance into graduate programs have resulted in high standards and heavy competition for admission to many graduate institutions. Necessary grade point averages are ordinarily not specified, but are usually well above 3.0. A student intending to pursue graduate study should begin to prepare as early as possible by planning a course of study and by maintaining the highest possible academic standards, particularly in HESP and supporting courses. It is very important to maintain a strong GPA. (See the [HESP Undergraduate Advisor](#) if you do not know your major GPA. He/she can find it for you!)

Information concerning specific graduate programs and applications for them should be requested at least one year in advance of anticipated entry into graduate school. The student seriously interested in graduate work should plan to apply to several schools and to spend considerable time and effort in the process of selecting programs, carefully completing applications, preparing for and taking [Graduate Record Examinations](#) (the GRE) if indicated, and obtaining necessary recommendations.

In general, applying to graduate school for HESP is a very time-consuming process. It is wise to begin the process approximately 1 to 1.5 years (2-3 semesters) prior to the semester you plan to begin graduate school.

The following section provides some **general** guidelines to help orient you to the application process.

**A seminar on getting into graduate school is usually held every October by NSSLHA and members of the admissions committee for HESP majors to attend for a question and answer session. A complete guide to applying to graduate school is available in the Undergraduate Advisor's office at 0131 LeFrak. Please pick one up at your convenience. The Undergraduate Advisor, however, is not able to compare the merits of particular graduate programs; if you would like advisement in selecting or choosing among potential graduate programs for application or enrollment, a faculty member is the best person to consult.

Applying to Graduate School

Here are some general tips to guide you - more specific questions need to be addressed directly to each individual graduate program, as they vary in admission criteria, policies, and applications.

Step 1: Deciding to which schools you wish to apply

- Obtain a list of [ASHA accredited graduate programs](#) in Speech and Hearing Science. A list of accredited University training programs is published yearly in [ASHA Magazine](#) and is available upon request from ASHA.
- [Send away for information and applications](#) from schools of interest **OR** visit the undergrad advising office where there are catalogs and information from most HESP graduate programs. A still better option is to visit the website of the Council of Academic Programs in Communication Sciences and Disorders (CAPCSD; www.capcsd.org), which maintains active links to all graduate programs, their websites, and other valuable information. We suggest you bookmark this site for easy navigating among possible schools to which you might apply.
- [Visit schools of interest](#): speak to faculty and graduate students (try not to catch grad students during midterms or finals!); inquire about outside placement opportunities; ask yourself, Is this a school that I could feel comfortable with for at least 2 years? In order to fully appreciate the school you are visiting and to get the attention that you deserve, it is best to make an appointment or contact the school you wish to visit prior to the actual date of your visit. If you just drop in on programs, they may not be able to take the time to talk with you or show you around.

*Note: The less geographically restricted you are, the more options you have. Therefore, the chances of acceptance should increase.

- [Obtain applications for each school](#), then create a list of requirements and deadlines for each school.

Step 2: The dreaded GRE!

- [Plan ahead!](#) Give yourself enough time to take the exam and receive your scores (it takes about 6 weeks!) before application deadlines. In addition, if you are considering the possibility of re-taking the GRE, allow yourself enough time to do so.
- [Forms](#): The GRE is now offered in written form (three times per year: April, October, and December) and on the computer, which is offered almost anytime throughout the year. There are pros and cons to each version, but ultimately, it is a personal decision about which form to take.
- [Preparation](#): Taking the GREs with NO preparation at all is highly discouraged! Minimal preparation would include obtaining a sample test booklet and familiarizing yourself with the test. Many students find that a prep-course is very beneficial. These courses range significantly in price, length, etc. University College offers a "budget" version that has been described by some students as the "best buy." (For more info. call 301-985-7195) In addition, many commercial study guides, including study software, are available (e.g. Barons, Princeton Review, etc.)

* GRE registration materials and the answers to any other questions about the GREs can be obtained from the Testing Center in the Shoemaker building (301-314-7688).

Step 3: Recommendations (most schools require 3)

- [Don't wait!](#) You do not have to wait until you are in the midst of applying to ask your professors for recommendations. Both you and the professor will appreciate avoiding the time-crunch.
- [Open a credentials file](#). You can do this in the Career Center on the 3rd floor of Hornbake (the classroom side). For a reasonable fee, they will create an electronic file which can hold recommendations (most professors prefer this option) and any other documents that you would like sent to graduate schools. It simplifies the process, especially if you are applying to several schools. Contact the career center for more information.
- [Choose persons who know your academic skills or who have worked with you in other ways, such as URAP, UTA, LEAP, clinic, etc.:](#) It is good to have the majority of your recommendations come from someone who knows your academic skills (i.e. professors). After all, you are applying to an academic program. Go to your professor's office hours, don't be another face in the crowd. You'll be glad you did when it's time to ask for recommendations. Ultimately, you want to ask the people who will give you the best recommendations.

Step 4: Statement of Intent

- [Most schools require some variation of this application requirement.](#) This is your chance to sell yourself as a capable, qualified candidate. It is a good idea to include relevant experiences,

explanations, etc. However, keep in mind that you are not applying for a job...you are applying for the opportunity to pursue a graduate level academic degree.

- Carefully proofread your statement! Nothing looks worse than spelling and grammar errors. For assistance, you can bring your statement to the **Career Development Center** or to the **Writing Center** (1126 Taliaferro) for a critique/discussion.

One last note: Keep copies of all your application materials, just in case. Also, allow ample mailing time for your materials. Call or check websites to ensure that all your materials have arrived at each school.
Follow-up to make sure your application is complete!

GOOD LUCK!!

HESP Course Descriptions

(Consult the **Schedule of Classes** for current availability and staffing.)

HESP 120 - Introduction to Linguistics (3). An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics, and pragmatics, with subsequent attention to the applied aspects of linguistic principles.

HESP 202 - Introduction to Hearing and Speech Sciences (3). Introduction to phonetics, the physiological bases of speech production and reception, and the physics of sound.

HESP 300 - Introduction to Psycholinguistics (3). Prerequisite: HESP 202. An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.

HESP 305 - Anatomy and Physiology of the Speech Mechanism (3). Prerequisite: HESP 202. Anatomy, physiology and neurology of the speech mechanism.

HESP 311 - Anatomy and Physiology of the Auditory System (3). Prerequisite: HESP 202. Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.

HESP 400 - Speech and Language Development in Children (3). Prerequisite: HESP 300. Analysis of the normal processes of speech and language development in children.

HESP 402 - Speech Pathology I (3). Prerequisite: HESP 300. Etiology, assessment and treatment of language and phonological disorders in children.

HESP 403 - Introduction to Phonetic Science (3). Prerequisite: HESP 305. An introduction to physiological, acoustic and perceptual phonetics: broad and narrow phonetic transcription; current models of speech production and perception.

HESP 404 - Speech Pathology II (3). Prerequisite: HESP 305. Etiology, assessment and therapeutic management of phonation, resonance and fluency disorders in children and adults.

HESP 406 - Speech Pathology III (3). Prerequisite: HESP 300 and 305. Survey of the dysarthrias and aphasia in adults from an interdisciplinary point of view.

HESP 407 - Bases of Hearing Science (3). Prerequisite: HESP 311. Fundamentals of hearing, including the physics of sound, anatomy and physiology of peripheral and central auditory nervous system, psychophysical procedures used in measurement of auditory sensation and perception, and topics in psychological acoustics.

HESP 410 - Organic Speech Disorders (3). Prerequisite: HESP 305. Overview of cleft palate, pediatric and adult swallowing disorders, pediatric cerebral palsy, including dysarthria/apraxia, and their effects on communication; treatment considerations.

HESP 411 - Introduction to Audiology (3). Prerequisite: HESP 311. An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.

HESP 417 - Principles and Methods in Speech-Language Pathology and Audiology (3). Prerequisites: HESP 402 and HESP 411. The principles underlying the treatment of speech, language and hearing disorders in children and adults.

HESP 418 - Clinical Practice in Speech-Language Pathology and Audiology (3). Prerequisite: HESP 417. Repeatable to 6 credits. Supervised observation with some direct participation in clinical methods for the treatment of disorders of articulation, fluency, child and adult language; evaluation and habilitation/rehabilitation of hearing impaired children and adults.

HESP 420 - Deafness and Sign Language (3) (previously 498a). Introduction to ASL and deaf culture.

HESP 422 - Neurologic Bases of Human Communication (3). Basic Neurology as it pertains to anatomy and physiology substrates of speech and language.

HESP 469 - Honors Thesis Research (1-6). HESP 498 - Seminar (3). Prerequisite: permission of department. Repeatable to 6 credits as content differs. A directed study of selected topics pertaining to human communication and its disorders.

Graduate Level HESP Courses

HESP 600 - Instrumentation in Hearing and Speech Sciences (3). Prerequisite: permission of the department. Types and principles of operation of electronic equipment used in the hearing and speech sciences.

HESP 602 - Neurological Bases of Human Communication (3). Prerequisite: permission of department. Basic neurology as it pertains to anatomical and physiological substrates of speech and language.

HESP 604 - Acoustic and Perceptual Phonetics (3). Prerequisite: permission of the department. Principles and current laboratory techniques in analysis of the acoustical characteristics of the speech signal and discussion of models of speech perception.

HESP 606 - Basic Hearing Measurements (3). Prerequisite: HESP 411 or equivalent. Theoretical principles, methodology, and interpretation of routine audiometric tests, including pure tone, speech and acoustic immittance measures. Modification of procedures for special populations. Equipment calibration and mass hearing screening programs.

HESP 610 - Aphasia (3). Language problems of adults associated with brain injury.

HESP 612 - Fluency Disorders (3). Prerequisite: permission of the department. The nature of fluency disorders. Principles, methods and procedures for the clinical management of fluency disorders in children and adults.

HESP 614 - Orofacial Anomalies (3). Prerequisite: permission of the department. Communication disorders related to congenital Orofacial anomalies with an emphasis on cleft lip and palate. Principles, methods and procedures for clinical management.

HESP 616 - Language Disorders in Children (3). Prerequisite: HESP 400 or equivalent OR permission of the department. Theoretical, empirical and clinical perspectives on language disorders in children.

HESP 620 - Phonological and Articulatory Disorders (3). Assessment and treatment of disorders at the phonological and articulatory levels of language and speech.

HESP 622 - Neuromotor Disorders of Speech (3). Prerequisite: permission of the department. Effects of neuropathology on speech production. Classification and assessment of the resultant disorders and their treatment.

HESP 624 - Voice Disorders (3). Prerequisite: permission of the department. Etiological characteristics, assessment, and treatment of phonatory disorders in children and adults.

HESP 625 - Dysphasia (3). Nature and clinical management of dysphasia in different clinical settings with adults and pediatric populations.

HESP 626 - Language and Learning Disabilities (3). Etiology, assessment and treatment of communication problems in children with learning disabilities.

HESP 627 - Augmentative Communication (3). Principles, methods, and procedures for categorizing, understanding, and developing augmentative and alternative communication.

HESP 630 - Electrophysiological Measurements (3). Prerequisite: HESP 606 or permission of the department. Principles and techniques of physiological and electrophysiological measures of the audio-vestibular mechanisms.

HESP 635 - Aural Rehabilitation/Habilitation (3). Principles, methods and procedures for aural rehabilitation/habilitation in children and adults.

HESP 638 - Research Practicum (1-3). Prerequisite: permission of the department. Repeatable to 6 credits if content differs. Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.

HESP 639 - Special Topics in Hearing and Speech Sciences (1-3). Prerequisite: permission of the department. Repeatable to 6 credits if content differs. Intensive coverage of selected topics of current interest.

HESP 645 - Pediatric Audiology (3). Prerequisite: HESP 606 or permission of the department. Evaluation and treatment of hearing-impaired children.

HESP 648 - Clinical Practice in Speech (1-3). Prerequisite: permission of instructor. Repeatable to 6 credits. Supervised training in the application of clinical methods in the diagnosis and treatment of speech disorders.

HESP 649 - Clinical Practice in Audiology (1-3). Prerequisite: permission of instructor. Repeatable to 6 credits. Supervised training in the application of clinical methods in the diagnosis and treatment of hearing disorders.

HESP 700 - Hearing Aids (3). Principles, methods and procedures for selection, fitting, calibration and management of amplification systems for hearing-impaired children and adults.

HESP 702 - Diagnostic Procedures in Speech-Language Pathology (3). Diagnostic tools and methods in the analysis of speech-language disorders in children and adults.

HESP 704 - Physiological Phonetics (3). Prerequisite: HESP 604. Laboratory techniques in the study of the speech mechanism.

HESP 706 - Advanced Clinical Audiology (3). Prerequisite: HESP 606 or equivalent. Advanced clinical and experimental methods of evaluating the peripheral and central auditory system using acoustic stimuli. Procedural consideration and interpretation of test results.

HESP 708 - Independent Study (1-6). Prerequisite: permission of instructor. Repeatable to 6 credits. Individual research projects under guidance of a faculty member.

HESP 710 - Industrial and Environmental Noise Problems (3). Prerequisite: permission of instructor. Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.

HESP 722 - Experimental Audiology (3). Experimental techniques in the investigation of problems in audiology.

HESP 724 - Research Design (3). Prerequisite: a course in basic statistics. Evaluations of research designs, critique of published articles and student involvement in designing experiments on assigned topics.

HESP 728 - Advanced Clinical Practice in Speech (1-8). Prerequisite: HESP 648 and permission of instructor. Repeatable to 8 credits. Clinical internship in selected off-campus facilities.

HESP 729 - Advanced Clinical Practice in Audiology (1-8). Prerequisite: HESP 649 and permission of instructor. Repeatable to 8 credits. Clinical internship in selected off-campus facilities.

HESP 799 - Master's Thesis Research (1-6).