

# Speech and Hearing Science, BA

The undergraduate major in speech and hearing science emphasizes the normal processes of speech, hearing, and language. Coursework for the major prepares students to enroll in either a master's degree program in speech-language pathology or a clinical doctorate program in audiology (AuD). The undergraduate degree does not qualify an individual to work professionally in the field.

## Learning Outcomes

Graduating BA students in speech and hearing science will have:

- a strong foundational understanding of the physical processes and biological substrates underlying normal audition, normal perception, and production of speech and language;
- a strong foundational understanding of the normal development of speech, language, and hearing;
- finished all prerequisite coursework needed to begin a graduate program in either speech-language pathology or audiology; and
- prepared to begin more advanced graduate coursework focusing on disorders, diagnosis, and treatment.

## Requirements

The Bachelor of Arts with a major in speech and hearing science requires a minimum of 120 s.h., including 63-64 s.h. of work for the major. Students must maintain a grade-point average of at least 2.00 in all courses for the major and in all UI courses for the major. They also must complete the College of Liberal Arts and Sciences GE CLAS Core.

Requirements include 12 core courses offered by the department and eight cognate courses offered by other departments. Transfer students must complete a minimum of 15 s.h. toward the major at the University of Iowa.

The BA with a major in speech and hearing science requires the following coursework.

Requirements	Hours
Core Courses	37
Cognate Courses	26-27
Clinical Observation	

## Core Courses

Course #	Title	Hours
All of these:		
CSD:1015	Introduction to Speech and Hearing Processes and Disorders	2
CSD:2110	Phonetics: Theory and Applications	3
CSD:2111	Basic Acoustics for Speech and Hearing	3
CSD:3112	Anatomy and Physiology of Speech Production	4
CSD:3113	Introduction to Hearing Science	4

CSD:3116	Basic Neuroscience for Speech and Hearing	3
CSD:3117	Psychology of Language	3
CSD:3118	Language Acquisition	3
CSD:3185	Hearing Loss and Audiometry	3
CSD:4145	Developmental Language Disorders	3
CSD:4148	Developmental Speech Disorders	3
CSD:4244	Rehabilitative Audiology	3

## Cognate Courses

Students may choose cognate courses that help fulfill the College of Liberal Arts and Sciences GE CLAS Core.

Course #	Title	Hours
Both of these:		
LING:3001	Introduction to Linguistics	3
PSY:1001	Elementary Psychology	3
One of these:		
PSQF:1020/ STAT:1020	Elementary Statistics and Inference	3
PSQF:4143/ STAT:4143	Introduction to Statistical Methods	3
STAT:2010	Statistical Methods and Computing	3
STAT:3510/ IGPI:3510	Biostatistics	3
One of these:		
CHEM:1070	General Chemistry I	3
CHEM:1110	Principles of Chemistry I	4
PHYS:1400	Basic Physics (preferably with lab)	3-4
PHYS:1511	College Physics I	4
One of these:		
ASP:3150	Psychology of Aging	3
PSY:2301	Introduction to Clinical Psychology	3
PSY:2930	Abnormal Psychology: Health Professions	3
SSW:1800/ ASP:1800/ CSD:1800/ NURS:1800/ TR:1800	Aging Matters: Introduction to Gerontology	3
One of these:		
PSQF:4106	Child Development	3
PSY:2401	Introduction to Developmental Science	3
One of these:		
BIOL:1141	Human Biology: Health Professions (with lab)	4
BIOL:1411	Foundations of Biology (with lab)	4
One of these:		
MATH:1440	Mathematics for the Biological Sciences	4

MATH:1460	Calculus for the Biological Sciences	4
MATH:1850	Calculus I	4

The cognate requirement in mathematics may be fulfilled through an acceptable score on the Advanced Placement AB or BC Calculus exam; see Credit by Exam Options on the Office of Admissions website. Students without AP credit are encouraged to take MATH:1440 Mathematics for the Biological Sciences (speech interest) or MATH:1460 Calculus for the Biological Sciences (audiology interest) to satisfy this requirement.

## Clinical Observation

Students have the opportunity and are encouraged to obtain 25 hours of supervised clinical observation, a prerequisite for participation in clinical practicums at the graduate level. This requirement is satisfied by the completion of CSD:4120 Introduction to Clinical Methods and Observation. In some cases, this requirement also can be fulfilled by independent observations.

## Honors

### Honors in the Major

The departmental honors program provides students the opportunity to conduct research in the field of communication sciences and disorders, gain experience presenting research ideas in public settings, and work closely with a faculty mentor.

In order to be eligible, students must have a cumulative and major grade-point average (GPA) of at least 3.60 at the end of the spring semester of their sophomore year, when top-ranking eligible students will be invited to apply for the program. Interested students should complete and return the application. A limited number of spots are available, based on the availability of mentors. Applications will be reviewed, and a select number of students will be admitted to the program.

After entering the departmental honors program, students enroll in CSD:3097 Honors Seminar in the fall semester of their junior year. The seminar provides an introduction to research philosophies, research design and implementation, and a chance for each student to critically evaluate existing research literature. In addition, the seminar provides an introduction to the department's research facilities and potential thesis advisors.

By the beginning of the spring semester of their junior year, students will have selected project areas and thesis advisors. During their final three semesters, honors students register for a total of 4 s.h. of CSD:4098 Honors Thesis and work on their projects/theses with their mentors. During the spring semester of their senior year, honors students present their projects at a university-wide forum (such as the UI Spring Undergraduate Research Festival) and at a departmental event (such as ProSem). Students must maintain a cumulative and major GPA of at least 3.60 in order to graduate with honors in the major. As a final recognition of the completion of the departmental honors program, honors students' diplomas bear a special notation.

## University of Iowa Honors Program

In addition to honors in the major, students have opportunities for honors study and activities through membership in the

University of Iowa Honors Program. Visit Honors at Iowa to learn about the university's honors program.

Membership in the UI Honors Program is not required to earn honors in the speech and hearing science major.

## Career Advancement

The speech and hearing science program provides excellent preparation for study in an advanced degree program that leads to a career as a speech-language pathologist or audiologist. There continues to be a strong demand for professionals in these fields, and both speech pathology and audiology are consistently ranked highly in "best job" surveys.

Advanced degree holders may work as a professor, clinician, and/or researcher in the field of communication sciences and disorders.

The Pomerantz Career Center offers multiple resources to help students find internships and jobs.

## Academic Plans

### Four-Year Graduation Plan

The following checkpoints list the minimum requirements students must complete by certain semesters in order to stay on the university's Four-Year Graduation Plan. Courses in the major are those required to complete the major; they may be offered by departments other than the major department.

The major requires specific mathematics and science competencies that may be satisfied with courses approved for the GE CLAS Core.

**Before the fifth semester begins:** three courses in the major.

**Before the seventh semester begins:** nine courses in the major and at least 90 s.h. earned toward the degree.

**Before the eighth semester begins:** 12 courses in the major.

**During the eighth semester:** enrollment in all remaining coursework in the major, all remaining GE CLAS Core courses, and a sufficient number of semester hours to graduate.

### Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

## Speech and Hearing Science, BA

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
GE CLAS Core: Sustainability <sup>a</sup>		
<b>Hours</b>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
CSD:1015	Introduction to Speech and Hearing Processes and Disorders	2
MATH:1460 or MATH:1440	Calculus for the Biological Sciences <sup>b, c</sup> or Mathematics for the Biological Sciences	4

ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3 - 4
GE CLAS Core: Diversity and Inclusion <sup>d</sup>		3
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>e</sup>		4 - 5
CSI:1600	Success at Iowa	2
<b>Hours</b>		<b>18-20</b>
<b>Spring</b>		
PSY:1001	Elementary Psychology	3
Major: physics or chemistry course <sup>f, g</sup>		3 - 4
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>e</sup>		4 - 5
Elective course <sup>h</sup>		1
<b>Hours</b>		<b>14-17</b>
<b>Second Year</b>		
<b>Fall</b>		
CSD:2110	Phonetics: Theory and Applications <sup>i</sup>	3
CSD:2111	Basic Acoustics for Speech and Hearing <sup>i</sup>	3
LING:3001	Introduction to Linguistics	3
GE CLAS Core: World Languages Third Level Proficiency or elective course <sup>e</sup>		4 - 5
Elective course <sup>h</sup>		3
<b>Hours</b>		<b>16-17</b>
<b>Spring</b>		
CSD:3113	Introduction to Hearing Science <sup>j</sup>	4
CSD:3118	Language Acquisition <sup>j</sup>	3
BIOL:1141	Human Biology: Health Professions	4
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>e</sup>		4 - 5
Elective course <sup>h</sup>		1
<b>Hours</b>		<b>16-17</b>
<b>Third Year</b>		
<b>Fall</b>		
CSD:3185	Hearing Loss and Audiometry <sup>i</sup>	3
Major: group A psychology course <sup>g</sup>		3
GE CLAS Core: Historical Perspectives <sup>d</sup>		3
GE CLAS Core: Values and Culture <sup>d</sup>		3
Elective course <sup>h</sup>		3 - 4
<b>Hours</b>		<b>15-16</b>
<b>Spring</b>		
CSD:3112	Anatomy and Physiology of Speech Production <sup>j</sup>	4
CSD:3117	Psychology of Language <sup>j</sup>	3
Major: group B psychology course <sup>g</sup>		3
Major: statistics course <sup>g</sup>		3
Elective course <sup>h</sup>		3 - 4
<b>Hours</b>		<b>16-17</b>
<b>Fourth Year</b>		
<b>Fall</b>		
CSD:3116	Basic Neuroscience for Speech and Hearing <sup>i</sup>	3
CSD:4145	Developmental Language Disorders <sup>i</sup>	3

GE CLAS Core: International and Global Issues <sup>d</sup>		3
GE CLAS Core: Literary, Visual, and Performing Arts <sup>d</sup>		3
Elective course <sup>h</sup>		3 - 4
<b>Hours</b>		<b>15-16</b>
<b>Spring</b>		
CSD:4148	Developmental Speech Disorders <sup>j</sup>	3
CSD:4244	Rehabilitative Audiology <sup>j</sup>	3
CSD:4120	Introduction to Clinical Methods and Observation <sup>k</sup>	3
Elective course <sup>h</sup>		3
Elective course <sup>h</sup>		3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>l</sup>		
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>125-135</b>

a Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.

b Students intending to pursue AuD should consider MATH:1460.

c Enrollment in math courses requires completion of a placement exam.

d GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.

e Students who have completed four levels of a single language or two levels of two different languages in high school or college have satisfied the GE CLAS Core World Languages requirement. Students who have completed three levels of a single language may complete a fourth-level course in the same language or may choose an approved World Language and Cultural Exploration course. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course. Contact your academic advisor or CLAS Undergraduate Programs Office with questions concerning the World Languages requirement.

f Students should choose a course that will also fulfill the GE CLAS Core Natural Sciences requirement.

g See General Catalog for list of approved courses.

h Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.

i Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.

j Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.

k Students have the opportunity and are encouraged to obtain 25 hours of supervised clinical observation, a prerequisite for participation in clinical practicums at the graduate level. This requirement is satisfied by completion of CSD:4120 Introduction to Clinical Methods and Observation. In some cases, this requirement also can be fulfilled by independent observations.

l Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all

requirements will be met. For any questions on appropriate timing, contact your academic advisor or Degree Services.