Speech and Hearing Science, B.A.

The undergraduate major in speech and hearing science emphasizes the normal processes of speech, hearing, and language and does not qualify an individual to work professionally in the field. Instead, it is designed primarily to prepare students for graduate work. It also may be an appropriate major for students earning College of Liberal Arts and Sciences degrees who are not planning careers in speech pathology and audiology. Students who intend to pursue professional careers in communication sciences and disorders must complete a graduate program comparable to the department’s Master of Arts in speech pathology and audiology or its Doctor of Audiology (Au.D.).

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 g.p.a. 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 General Education Program.

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 B.A. with a major in speech and hearing science requires the following course work.

Core Courses

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 General Education Program.

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 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) 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 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 Introductory Animal Biology (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 completion of independent
observations or by registering for CSD:4120 Clinical Observations in Communication Disorders.

### Honors

#### Honors in the Major

The departmental honors program provides students the opportunity to conduct research in the field of communication sciences and disorders, to gain experience presenting research ideas in public settings, and to work closely with a faculty mentor. In order to be eligible, students must have a cumulative and major g.p.a. of at least 3.60 at the beginning of the fall semester of their junior year. All eligible students will be invited to apply for the program during the fall semester of their junior year. 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, based on g.p.a.

After entering the departmental honors program, students enroll in CSD:3097 Honors Seminar in the spring 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 fall semester of their senior year, students will have selected project areas and thesis advisors. During their senior year in the fall and spring semesters, honors students register for CSD:4098 Honors Thesis and work on their projects and 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. Students must maintain a cumulative and major g.p.a. of at least 3.60 in order to graduate with honors in the major.

As final recognition of the completion of the departmental honors program, the diplomas of honors students bear a special honors notation. Students interested in learning more about this program should contact their academic advisor and/or the departmental honors advisor.

#### 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.

### 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 General Education Program.

**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 course work in the major, all remaining General Education courses, and a sufficient number of semester hours to graduate

### Sample Plan of Study

#### Speech and Hearing Science (B.A.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSD:1015</td>
<td>Introduction to Speech and Hearing Processes and Disorders</td>
<td>2</td>
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<tr>
<td>MATH:1440</td>
<td>Mathematics for the Biological Sciences (also GE: Quantitative or Formal Reasoning)</td>
<td>4</td>
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<tr>
<td>RHET:1030</td>
<td>Rhetoric (GE: Rhetoric or other General Education course)</td>
<td>4</td>
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<tr>
<td>GE: Values and Culture</td>
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<tr>
<td>CSI:1600</td>
<td>Success at Iowa</td>
<td>2</td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>BIOL:1141</td>
<td>Introductory Animal Biology (also GE: Natural Sciences with a lab)</td>
<td>4</td>
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<tr>
<td>ENGL:1200</td>
<td>The Interpretation of Literature (GE: Interpretation of Literature)</td>
<td>3</td>
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<tr>
<td>PSY:1001</td>
<td>Elementary Psychology (also GE: Social Sciences)</td>
<td>3</td>
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<tr>
<td>GE: Diversity and Inclusion</td>
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<tr>
<td>Elective course</td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
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<tr>
<td><strong>Second Year</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>CSD:2110</td>
<td>Phonetics: Theory and Applications</td>
<td>3</td>
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<tr>
<td>CSD:2111</td>
<td>Basic Acoustics for Speech and Hearing</td>
<td>3</td>
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<tr>
<td>LING:3001</td>
<td>Introduction to Linguistics</td>
<td>3</td>
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<tr>
<td>GE: World Languages or elective course</td>
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<tr>
<td>Elective course</td>
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<tr>
<td><strong>Hours</strong></td>
<td></td>
<td><strong>15-17</strong></td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
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<tr>
<td>CSD:3113</td>
<td>Introduction to Hearing Science</td>
<td>4</td>
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<tr>
<td>Major: physics or chemistry course (also GE: Natural Sciences without a lab)</td>
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<tr>
<td>GE: Literary, Visual, and Performing Arts</td>
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<tr>
<td>GE: World Languages or elective course</td>
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<td>Elective course</td>
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<tr>
<td><strong>Hours</strong></td>
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<td><strong>15-17</strong></td>
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### Third Year

#### Fall
- **CSD:3185** Hearing Loss and Audiometry 3
- Major: group A psychology course 3
- GE: Historical Perspectives 3
- GE: International and Global Issues 3
- GE: World Languages or elective course 3-5
  - Hours 15-17

#### Spring
- **CSD:3112** Anatomy and Physiology of Speech Production 4
- **CSD:3117** Psychology of Language 3
- Major: group B psychology course 3
- Major: statistics course 3
- GE: World Languages or elective course 3-5
  - Hours 16-18

### Fourth Year

#### Fall
- **CSD:3116** Basic Neuroscience for Speech and Hearing 3
- **CSD:4145** Developmental Language Disorders 3
- Major: additional major or elective course 3
- Elective course 3
  - Hours 15

#### Spring
- **CSD:4148** Developmental Speech Disorders 3
- **CSD:4244** Rehabilitative Audiology 3
- Major: additional major or elective course 3
- Elective course 3
  - Hours 15

**Total Hours** 121-129

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1. General Education (GE) 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. For more information, view the General Education Program.
2. Enrollment in chemistry and math courses require completion of placement exams.
3. Students may use their elective courses to complete a double major, minors, or certificates.
4. Students who have completed four years of a single language in high school have satisfied the College of Liberal Arts and Sciences GE: World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.

### Career Advancement

Advanced degree holders may work as a teacher, 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.

The speech and hearing science program provides excellent preparation for 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.