Speech and Hearing Science, B.A.

Learning Outcomes

Graduating B.A. 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; and
• finished all prerequisite course work needed to begin a graduate program in either speech-language pathology or audiology, and will be prepared to begin more advanced graduate course work focusing on disorders, diagnosis, and treatment.

Overview

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD:2110</td>
<td>Phonetics: Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CSD:2111</td>
<td>Basic Acoustics for Speech and Hearing</td>
<td>3</td>
</tr>
<tr>
<td>CSD:3112</td>
<td>Anatomy and Physiology of Speech Production</td>
<td>4</td>
</tr>
<tr>
<td>CSD:3113</td>
<td>Introduction to Hearing Science</td>
<td>4</td>
</tr>
<tr>
<td>CSD:3116</td>
<td>Basic Neuroscience for Speech and Hearing</td>
<td>3</td>
</tr>
<tr>
<td>CSD:3117</td>
<td>Psychology of Language</td>
<td>3</td>
</tr>
<tr>
<td>CSD:3118</td>
<td>Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>CSD:3185</td>
<td>Hearing Loss and Audiometry</td>
<td>3</td>
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<tr>
<td>CSD:4145</td>
<td>Developmental Language Disorders</td>
<td>3</td>
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<tr>
<td>CSD:4148</td>
<td>Developmental Speech Disorders</td>
<td>3</td>
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<tr>
<td>CSD:4244</td>
<td>Rehabilitative Audiology</td>
<td>3</td>
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</tbody>
</table>

Cognate Courses

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>LING:3001</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY:1001</td>
<td>Elementary Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSQF:1020/STAT:1020</td>
<td>Elementary Statistics and Inference</td>
<td>3</td>
</tr>
<tr>
<td>PSQF:4143/STAT:4143</td>
<td>Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>STAT:2010</td>
<td>Statistical Methods and Computing</td>
<td>3</td>
</tr>
<tr>
<td>STAT:3510/IGPI:3510</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1070</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM:1110</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS:1400</td>
<td>Basic Physics (preferably with lab)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS:1511</td>
<td>College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>ASP:3150</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY:2301</td>
<td>Introduction to Clinical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY:2930</td>
<td>Abnormal Psychology: Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>PSQF:4106</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY:2401</td>
<td>Introduction to Developmental Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL:1141</td>
<td>Introductory Animal Biology (with lab)</td>
<td>4</td>
</tr>
</tbody>
</table>
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 to 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 their grade-point average.

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 honors notation. Students interested in learning more about this program should contact their academic advisor and/or the departmental honor’s 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 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 course work 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.

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>RHET:1030 or ENGL:1200</td>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
</tr>
<tr>
<td>MATH:1440 or MATH:1460</td>
<td>Mathematics for the Biological Sciences or Calculus for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CSD:1015</td>
<td>Introduction to Speech and Hearing Processes and Disorders</td>
<td>2</td>
</tr>
<tr>
<td>GE CLAS Core: Historical Perspectives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE CLAS Core: World Languages First Level Proficiency or elective course</td>
<td></td>
<td>4 - 5</td>
</tr>
<tr>
<td>CSI:1600</td>
<td>Success at Iowa</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>18-20</strong></td>
</tr>
</tbody>
</table>
### Spring
- RHET:1030 Rhetoric or ENGL:1200 The Interpretation of Literature 3 - 4
- PSY:1001 Elementary Psychology b 3
- BIOL:1141 Introductory Animal Biology b 4
- GE CLAS Core: World Languages Second Level Proficiency or elective course e 4 - 5
- Elective course f 1
- Hours 15-17

### Second Year
#### Fall
- CSD:2110 Phonetics: Theory and Applications g 3
- CSD:2111 Basic Acoustics for Speech and Hearing g 3
- LING:3001 Introduction to Linguistics 3
- GE CLAS Core: World Languages Second Level Proficiency or elective course e 4 - 5
- Elective course f 3
- Hours 16-17

#### Spring
- CSD:3113 Introduction to Hearing Science h 4
- CSD:3118 Language Acquisition b, h 3
- Major: physics or chemistry course 3
- GE CLAS Core: World Languages Fourth Level Proficiency or elective course e 4 - 5
- Elective course f 1
- Hours 15-16

### Third Year
#### Fall
- CSD:3185 Hearing Loss and Audiometry g 3
- Major: group A psychology course 3
- GE CLAS Core: Diversity and Inclusion d 3
- GE CLAS Core: Values and Culture d 3
- Elective course f 3 - 4
- Hours 15-16

#### Spring
- CSD:3112 Anatomy and Physiology of Speech Production h 4
- CSD:3117 Psychology of Language b, h 3
- Major: group B psychology course 3
- Major: statistics course 3
- Elective course f 3 - 4
- Hours 16-17

### Fourth Year
#### Fall
- CSD:4145 Developmental Language Disorders g 3
- CSD:3116 Basic Neuroscience for Speech and Hearing g 3
- GE CLAS Core: International and Global Issues d 3
- GE CLAS Core: Literary, Visual, and Performing Arts 3
- Elective course f 3 - 4
- Hours 15-16

#### Spring
- CSD:4244 Rehabilitative Audiology h 3
- CSD:4120 Introduction to Clinical Methods and Observation 2
- Elective course f 3
- Elective course f 3
- Hours 14
- Total Hours 124-133

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a Students intending to pursue AuD should consider MATH:1460.
b Fulfills a major requirement and may fulfill a GE requirement.
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 years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.
f 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.
g Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.
h Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.
i Students should choose a course that will also fulfill the GE CLAS Core Natural Sciences requirement.

### Career Advancement
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.

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.