COMMUNICATION SCIENCES AND DISORDERS, B.S.

Begin Campus: Any Penn State Campus
End Campus: University Park

Program Description
This major offers a comprehensive program of study for preparing students who want to become speech-language pathologists or audiologists. The curriculum is specifically designed for the sole purpose of preparing undergraduate students for graduate study in communication sciences and disorders or related areas. This occurs because state licensure laws and professional certifications require that a speech-language pathologist or audiologist must have a master’s degree, pass a national test, and complete a clinical fellowship year.

Overall, the curriculum enables students to develop fundamental knowledge based on scientific principles, skills, and attitudes required for habilitating and rehabilitating persons of all ages with a wide range of speech, language, and hearing problems. Further, the curriculum allows students an opportunity to explore all aspects of communication sciences and disorders as well as elect courses of special interest.

The first two years of study emphasize general education and background study. The last two years of study emphasize normal and disordered aspects of speech, language, and hearing as well as professional management, concerns, and obligations. Clinical observation and diversity focused coursework are included in the curriculum.

What is Communication Sciences and Disorders?
Communication Sciences and Disorders (CSD) is the study of human communication disorders. Undergraduate students acquire a strong foundation in the basic sciences and processes related to typical, delayed and disordered speech, language, cognition, swallowing, and hearing. Students gain critical-thinking abilities necessary to apply foundational knowledge and skills to the identification, assessment, and treatment of communication disorders. Graduates proceed to advanced degrees in speech-language pathology or audiology to habilitate and rehabilitate children and adults with a variety of disorders and delays through service and research. Speech-language pathologists and audiologists are employed in environments such as schools, hospitals, rehabilitation centers, community clinics and nursing homes.

You Might Like This Program If...
- You know you will find fulfillment in working closely with others.
- You want to pursue a career in a helping profession.
- You envision yourself teaching people skills to improve their quality of life.

MORE INFORMATION ABOUT COMMUNICATION SCIENCES AND DISORDERS (http://csd.hhd.psu.edu/undergrad)

Entrance to Major
In order to be eligible for entrance to this major, a student must:

1. attain at least a C (2.00) cumulative grade-point average for all courses taken at the University; and
2. have third-semester classification (http://www.registrar.psu.edu/registration/semester_classification.cfm).

READ SENATE POLICY 37-30: ENTRANCE TO AND CHANGES IN MAJOR PROGRAMS OF STUDY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/37-00-entrance-to-a-college-or-major)

Degree Requirements
For the Bachelor of Science degree in Communication Sciences and Disorders, a minimum of 120 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>30</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>54-55</td>
</tr>
</tbody>
</table>

9-10 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 6 credits of GS courses; 3-4 credits of GQ courses.

To satisfy graduation requirements, students must have completed 6 credits from courses offered in the college and outside the department in which the major is offered.

Per Senate Policy 83.80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of coursework in the major to be taken at the location or in the college or program where the degree is earned. CSD requires students to complete 24 credits for the major through courses taken at University Park. Courses taken at other Penn State campuses may not be counted toward this 24 credit minimum. For more information, check the Recommended Academic Plan for this major.

General Education
Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (http://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required.)
- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

Knowledge Domains
- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits
Integrative Studies (may also complete a Knowledge Domain requirement)

- Inter-Domain or Approved Linked Courses: 6 credits

University Degree Requirements

First Year Engagement
All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement
6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

Writing Across the Curriculum
3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits
A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work
Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition
The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.

Requirements for the Major
To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYCH 100</td>
<td>Introductory Psychology</td>
<td>3</td>
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<tr>
<td>CSD 146</td>
<td>Introduction to Communication Sciences and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 230</td>
<td>Introduction to Audiology</td>
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CSD 269 Deaf Culture 3
CSD 300 Developmental Considerations in the Assessment and Treatment of Language Disorders 3
CSD 311 Clinical Phonetics 3
CSD 331 Anatomy and Physiology for Speech and Hearing 3
CSD 341 Acoustic Principles in Communication Sciences and Disorders 3
CSD 433 Aural Rehabilitation 3
CSD 442 Introduction to Disorders of Articulation and Phonology 3
CSD 444 Introduction to Organic Disorders of Speech and Language 3
CSD 451 An Introduction to Augmentative and Alternative Communication 3
CSD 459 Principles of Clinical Management in Communication Disorders 3
CSD 462 Clinical Bases of Language Disorders 3

Additional Courses

EDPSY 14 Learning and Instruction 3
or PSYCH 261 Introduction to Psychology of Learning 3
HDFS 129 Introduction to Human Development and Family Studies 3
or PSYCH 212 Introduction to Developmental Psychology 3

Select 3-4 credits of the following:

- EDPSY 101 Analysis and Interpretation of Statistical Data in Education 3-4
- PSYCH 200 Elementary Statistics in Psychology
- STAT 200 Elementary Statistics

Select one of the following:

- HDFS 229 Infant and Child Development 3
- HDFS 249N Adult Development and Aging
- HDFS 315 Family Development
- HDFS 411 The Helping Relationship
- HDFS 418 Family Relationships
- HDFS 432 Developmental Problems in Childhood and Adolescence
- PSYCH 270 Introduction to Abnormal Psychology
- PSYCH 471 Psychology of Adjustment and Social Relationships

Academic Advising
The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and-out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.
Suggested Academic Plan

University Park Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

### First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Spring Credits</th>
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<td>Fall</td>
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<td>3 CSD 146*</td>
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<td>ENGL 15, 30, or ESL 15‡</td>
<td>3 EDPSY 101, STAT 200, or PSYCH 200†</td>
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<td>PSYCH 100†</td>
<td>3 HDFS 129 or PSYCH 212*</td>
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<td>General Education Course (GA)</td>
<td>3 General Education Course (GH)†</td>
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<td></td>
<td>General Education Course (GN) Human Biological‡</td>
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### Second Year

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<tr>
<td>Fall</td>
<td>CSD 269*</td>
<td>3 CSD 230*</td>
<td>3</td>
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<tr>
<td></td>
<td>CSD 311†</td>
<td>3 CSD 300*</td>
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<td>HDFS 229, 249N, 315, 411, 418, 432, PSYCH 270, or PSYCH 471</td>
<td>3 EDPSY 14 or PSYCH 261</td>
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<td>General Education Course (GA)</td>
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<td>General Education Course (GN) Physical‡</td>
<td>3 General Education Course (GQ)‡</td>
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### Third Year

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<tr>
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<td>CSD 433*</td>
<td>3 CSD 442*</td>
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<td>General Education Course (GHW) or Elective§,‡</td>
<td>1.5-3 ENGL 202A, 202B, 202C, or 202D‡</td>
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<td>General Education Course (GN)</td>
<td>3 Elective§</td>
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### Fourth Year

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Total Credits 121-124

* Course requires a grade of C or better for the major
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
† Course satisfies General Education and degree requirement

### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures). W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement. GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

1. CSD recommends, but does not require, GH's such as APLNG 200, APLNG 210, CAMS 50, ENGL 228, LTNST 100, and CI 280.
2. ASHA (but not PSU) requires a human biological science and a physical science (physics or chemistry), so GN courses should be selected accordingly. Email Joel Waters (joelwaters@psu.edu) or Courtney Wozetek (courtney@psu.edu), CSD major advisers, with questions.
3. MATH 21 is strongly recommended as a GQ because it covers the type of math tested on the GRE (see Advising Notes below).
4. CSD strongly recommends several electives such as (in order of preference): CSD 497/A, LING 1, LING 100, APLNG 200, APLNG 210, MATH 21, CAMS 50, CI 280, SPLD 400, SPLED 50, CSD 218, CSD 318, CSD 100, RHS 100, RHS 300, ENGL 228, LTNST 100, LTNST 127, SOC 119, any PHYS, any human biology course, any PSYCH, any HDFS.
5. CSD recommends CSD 100.
Advising Notes
ASHA requires 25 documented shadowing hours with an ASHA-certified speech pathologist or audiologist. Accumulation of these hours can only begin after a student has enrolled in CSD 146, and must be documented on the Observation Log found here: http://csd.hhd.psu.edu/student-advising-resources

Any student interested in becoming a speech-language pathologist or audiologist should first take the GRE (Graduate Record Examination: GRE.org) during the summer between their sophomore and junior years, and for a second time during the summer between their junior and senior years.

For CSD majors the Writing Across the Curriculum requirement is completed once the student has passed CSD 459.

CSD 100 and CSD 269 are currently the only CSD courses available online (through World Campus), offered every summer, fall and spring semester.

LIMITATIONS ON SOURCE AND TIME FOR CREDIT ACQUISITION: Per Senate policy 83-80.5, the college dean or campus chancellor and program faculty may require students to complete up to 24 credits for the major through courses taken at University Park. Courses taken at other Penn State campuses may not be counted toward this 24 credit minimum.

Within the 30 credits of required General Education Domain courses, students must take 6 credits of Integrative Studies courses (Inter-domain or Linked courses). If you need additional clarification, consult with your academic adviser.

Commonwealth Campuses
The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
ENGL 15, 30, or ESL 15‡ | 3 | EDPSY 14 or PSYCH 261 | 3
HDFS 129 or PSYCH 212‡ | 3 | General Education Course (GA) | 3
PSYCH 100‡ | 3 | General Education Course (GH)² | 3
General Education Course (GA) | 3 | General Education Course (GHW)⁵ | 1.5-3
General Education Course (GH)² | 3 | General Education Course (GN) Physical³ | 3
PSU First Year Seminar¹ | 1 | Elective⁴ | 3

Total: 16 | 16.5-18

Second Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
CAS 100, 100A, 100B, or 100C‡ | 3 | HDFS 229, 249, HDFS 315, HDFS 411, HDFS 418, HDFS 432, PSYCH 270, or PSYCH 471 | 3

EDPSY 101, STAT 200, or PSYCH 200†† | 3-4 | ENGL 202A, 202B, 202C, or 202D | 3
General Education Course (GHW)⁵ | 1.5-3 | General Education Course (GQ)¹⁵ | 3
General Education Course (GN) | 3 | General Education Course (GN) Human Biological³ | 3
Elective⁴ | 3 | Elective⁴ | 3

Total: 13.5-16 | 15

Third Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
CSD 146†⁷ | 3 | CSD 311† | 3
CSD 230†⁷ | 3 | CSD 331† | 3
CSD 269†⁷ | 3 | CSD 451† | 3
CSD 300†⁷ | 3 | Elective⁴ | 3
Elective⁴ | 3 | Elective⁴ | 3

Total: 15 | 15

Fourth Year
Fall | Credits | Spring | Credits
--- | --- | --- | ---
CSD 341† | 3 | CSD 433† | 3
CSD 444† | 3 | CSD 442† | 3
CSD 462* | 3 | CSD 459* | 3
Elective⁴ | 3 | Elective⁴ | 3
Elective⁴ | 3 | Elective⁴ | 3

Total: 15 | 15

Total Credits: 121-125

* Course requires a grade of C or better for the major
† Course satisfies General Education and degree requirement
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement

University Requirements and General Education Notes:
US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

¹ First year seminar not required at some campuses.
² CSD recommends, but does not require, GH’s such as APLNG 200, APLNG 210, CAMS 50, ENGL 228, LTNST 100, and CI 280.
ASHA (but not PSU) requires a human biological science and a physical science (physics or chemistry), so GN courses should be selected accordingly. Email Joel Waters (joelwaters@psu.edu) or Courtney Wozetek (courtney@psu.edu), CSD major advisers, with questions.

CSD strongly recommends several electives such as (in order of preference): CSD 497/A, LING 1, LING 100, APLNG 200, APLNG 210, MATH 21, CAMS 50, CI 280, SPLED 400, INART 50, CSD 218, CSD 318, CSD 100, RHS 100, RHS 300, ENGL 228, LTNST, LTNST 100, 127, SOC 119, any PHYS, any human biology course, any PSYCH, any HDFS.

MATH 21 is strongly recommended as a GQ because it covers the type of math tested on the GRE (see Advising Notes below).

CSD recommends CSD 100.

Change-of-campus students who have had no prior CSD courses must take four of the following courses: CSD 146 AND CSD 230 AND CSD 300 AND CSD 269 or CSD 331 (if the "any human biology course" prerequisite is met) or CSD 311.

Advising Notes
ASHA requires 25 documented shadowing hours with an ASHA-certified speech pathologist or audiologist. Accumulation of these hours can only begin after a student has enrolled in CSD 146, and must be documented on the Observation Log found here: http://csd.hhd.psu.edu/student-advising-resources

Any student interested in becoming a speech-language pathologist or audiologist should first take the GRE (Graduate Record Examination: GRE.org) during the summer between their sophomore and junior years, and for a second time during the summer between their junior and senior years.

For CSD majors the Writing Across the Curriculum requirement is completed once the student has passed CSD 459.

CSD 100 and CSD 269 are currently the only CSD courses available online (through World Campus), offered every summer, fall and spring semester.

LIMITATIONS ON SOURCE AND TIME FOR CREDIT ACQUISITION: Per Senate policy 83-80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Most majors in Health and Human Development require students to complete up to 24 credits for the major through courses taken at University Park. Courses taken at other Penn State campuses may not be counted toward this 24 credit minimum.

Within the 30 credits of required General Education Domain courses, students must take 6 credits of Integrative Studies courses (Inter-domain or Linked courses). If you need additional clarification, consult with your academic adviser.

Career Paths
Students who complete an advanced degree in speech-language pathology evaluate, diagnose and provide treatment for people of all ages who have communication disabilities and differences. Speech-language pathologists with master's degrees work in hospital and rehabilitation centers, schools, community clinics, nursing homes, and private practice. Audiology students who complete a clinical doctorate of audiology degree (Au.D.) evaluate, diagnose and treat people of all ages with hearing loss. Speech-language pathologists and audiologists who earn doctorate (Ph.D.) degrees typically teach and conduct research in a university setting.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE COMMUNICATION SCIENCES AND DISORDERS PROGRAM (http://csd.hhd.psu.edu/undergrad/ugrad_detail.html)

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (http://csd.hhd.psu.edu/graduate)

Professional Resources
- American Speech-Language-Hearing Association (ASHA) (https://www.asha.org)

Contact
University Park
DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS
308 Ford Building
University Park, PA 16802
814-865-3584
csdinfo@psu.edu
https://hhd.psu.edu/csd