

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.
- You want to develop new interventions for those with communications disorders.

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:

Requirement	Credits
General Education	45
Electives	30
Requirements for the Major	54-55

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>).

Code	Title	Credits
Prescribed Courses		
PSYCH 100	Introductory Psychology	3

Prescribed Courses: Require a grade of C or better

CSD 146	Introduction to Communication Sciences and Disorders	3
CSD 230	Introduction to Audiology	3
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 or PSYCH 261	Learning and Instruction Introduction to Psychology of Learning	3
HDFS 129	Introduction to Human Development and Family Studies	3
	or PSYCH 212 Introduction to Developmental Psychology	
Select 3-4 credits of the following:		3-4
EDPSY 101	Analysis and Interpretation of Statistical Data in Education	
PSYCH 200	Elementary Statistics in Psychology	
STAT 200	Elementary Statistics	
Select one of the following:		3
HDFS 229	Infant and Child Development	
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	

Program Learning Objectives

Content Knowledge:

1. Explain and apply knowledge of the developmental norms for speech/language acquisition
2. Explain and apply knowledge of the theoretical and scientific foundations of CSD
3. Explain and apply knowledge of speech, language and hearing disorders
4. Explain how individual, cultural, and linguistic differences contribute to understanding of language and communication

- Discuss current technological advances and illustrate their use for clinical problem solving
- Demonstrate knowledge of the basic clinical process for the evaluation and remediation of communication disorders and differences

Critical Thinking Skills and Research Knowledge:

- Apply critical thinking, problem solving and logical reasoning skills to topics in CSD
- Develop and explain the scientific method and basic analytic skills for interpretation of research
- Identify and apply "evidence-informed decision making" as a lifelong learning perspective

Communication Skills:

- Demonstrate effective written communication skills to explain and describe content and research knowledge, and critical thinking skills as they apply to topics in CSD
- Demonstrate effective spoken communication skills to explain and describe content and research knowledge, and critical thinking skills as they apply to topics in CSD

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.

READ SENATE POLICY 32-00: ADVISING POLICY (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy>)

University Park

Undergraduate Advising

308 Ford Building
 University Park, PA 16802
 814-865-3584
 csdinfo@psu.edu
<https://hhd.psu.edu/csd/undergraduate/advising-csd>

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2019-20 academic year. To access previous years' suggested academic plans, please visit the archive (<http://bulletins.psu.edu/undergraduate/archive>) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

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

Fall	Credits Spring	Credits
CAS 100, 100A, 100B, or 100C [‡]	3 CSD 146 [*]	3
ENGL 15, 30, or ESL 15 [‡]	3 EDPSY 101, STAT 200, or PSYCH 200 ^{‡†}	3
PSYCH 100 [†]	3 HDFS 129 or PSYCH 212 [†]	3
General Education Course (GA)	3 General Education Course (GH) ¹	3
General Education Course (GH) ¹	3 General Education Course (GN) Human Biological ²	3
PSU 14	1	
	16	15

Second Year

Fall	Credits Spring	Credits
CSD 269 [*]	3 CSD 230 [*]	3
CSD 311 [*]	3 CSD 300 [*]	3
HDFS 229, 249N, 315, 411, 418, 432, PSYCH 270, or PSYCH 471	3 EDPSY 14 or PSYCH 261	3
General Education Course (GA)	3 General Education Course (GHW) ¹	1.5-3
General Education Course (GN) Physical ²	3 General Education Course (GQ) ^{‡1}	3
	Elective ¹	3
	15	16.5-18

Third Year

Fall	Credits Spring	Credits
CSD 331 [*]	3 CSD 341 [*]	3
CSD 433 [*]	3 CSD 442 [*]	3
General Education Course (GHW) or Elective ¹	1.5-3 ENGL 202A, 202B, 202C, or 202D [‡]	3
General Education Course (GN)	3 Elective ¹	3
Elective ¹	3 Elective ¹	3
	13.5-15	15

Fourth Year

Fall	Credits Spring	Credits
CSD 459 [*]	3 CSD 444 [*]	3
CSD 451 [*]	3 CSD 462 [*]	3
Elective ¹	3 Elective ¹	3
Elective ¹	3 Elective ¹	3
Elective ¹	3 Elective ¹	3
	15	15

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

¹ For course suggestions, please visit: <https://hhd.psu.edu/csd/undergraduate/courses>.

² ASHA (<https://www.asha.org/certification/course-content-areas-for-slp-standards>) requirements for admission to graduate school in SLP or Audiology require a biological science course and a physical science (physics or chemistry) course, so GN courses should be selected with this in mind. For course suggestions, please visit: <https://hhd.psu.edu/csd/undergraduate/courses>.

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.

Advising Notes

ASHA requires 25 documented shadowing hours with an ASHA-certified speech pathologist or audiologist. Hours must be documented on the Observation Log found at: <http://csd.hhd.psu.edu/student-advising-resources>.

The Graduate Record Examination (GRE) (<http://www.ets.org/gre>) is required for admission to most graduate programs in speech-language pathology and audiology. Students are strongly encouraged to take the GRE during the summer between their sophomore and junior year.

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.

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) ²	1.5-3
General Education Course (GH) ²	3 General Education Course (GN) Physical ³	3
PSU First Year Seminar ¹	1 Elective ²	3
	16	16.5-18

Second Year

Fall	Credits Spring	Credits
CAS 100, 100A, 100B, or 100C [‡]	3 HDFS 229, 249N, 315, 411, 418, 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) ²	1.5-3 General Education Course (GQ) ^{‡2}	3
General Education Course (GN)	3 General Education Course (GN) Human Biological ³	3
Elective ²	3 Elective ²	3
	13.5-16	15

Third Year

Fall	Credits Spring	Credits
CSD 146 [*]	3 CSD 311 [*]	3
CSD 230 [*]	3 CSD 331 [*]	3
CSD 269 ^{*4}	3 CSD 451 [*]	3
CSD 300 [*]	3 Elective ²	3
Elective ²	3 Elective ²	3
	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
Elective ²	3 Elective ²	3
Elective ²	3 Elective ²	3
	15	15

Total Credits 121-125

- * 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

¹ First year seminar not required at some campuses.

² For course suggestions, please visit: <https://hhd.psu.edu/csd/undergraduate/courses>.

³ ASHA (<https://www.asha.org/certification/course-content-areas-for-slp-standards>) requirements for admission to graduate school in SLP or Audiology require a biological science course and a physical science (physics or chemistry) course, so GN courses should be selected with this in mind. For course suggestions, please visit: <https://hhd.psu.edu/csd/undergraduate/courses>.

⁴ CSD 269 is offered via World Campus every summer, fall and spring semester and can be taken prior to coming to University Park.

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.

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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.

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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.

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 (<https://hhd.psu.edu/csd/undergraduate/careers>)

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://hhd.psu.edu/csd/communication-sciences-and-disorders-graduate-program>)

Professional Resources

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

Contact

University Park

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