

# Bachelor of Science

## Speech-Language Pathology and Audiology (BS)

Dr. Kimberly Murphy, Undergraduate Program Director

The Bachelor of Science program in Speech-Language Pathology and Audiology is designed to provide students with the academic experiences needed to understand normal processes involved in speech, language, swallowing, and hearing abilities, and to identify communication and swallowing disorders. Classes also introduce students to clinical procedures for assessment and treatment of communication and swallowing disorders. The minimum number of hours required for the degree is 120 credits. The bachelor's-level students are not eligible for employment as a licensed speech-language pathologist or audiologist in any professional setting. Therefore, the undergraduate program at Old Dominion University serves as a feeder program for students to apply to the graduate program in speech-language pathology where licensure and certification standards will be met. The undergraduate program at Old Dominion University provides students with the coursework required to apply for national certification as a Speech-Language Pathology Assistant. Finally, the undergraduate degree also prepares students to apply to graduate audiology programs that are offered at other universities and other professional graduate programs.

### Admission and Continuance Requirements

#### Admission

To officially declare a major in Speech-Language Pathology & Audiology, requirements are as follows:

1. Students must have completed at least one year of coursework at ODU with an overall grade point average of at least 2.50; Transfer students must have completed at least one semester of course work at ODU with an overall grade point average of at least 2.50.
2. Students must have completed the following courses: ENGL 110C (C or higher), Mathematical Skills (STAT 130M preferred), Human Behavior (PSYC 201S or SOC 201S preferred), 8 credits of BIOL and CHEM or PHYS Nature of Science requirements, and CSD 350 (C- or higher).
3. Students must have an interview with a program advisor.
4. Students who have met all Speech-Language Pathology & Audiology major admission requirements will be referred by their advisor in the Health Sciences Advising Center to the Speech-Language Pathology & Audiology Undergraduate Program Director for major declaration and assignment to a program advisor. For additional information on the curriculum or major declaration requirements, please contact: Program Director (kamurphy@odu.edu) or the College of Health Sciences Advising Center (hsadvising@odu.edu) (hsadvising@odu.edu).

#### Continuance

A cumulative grade point average of 2.50 in all major courses is required for continuing status. Grades below C- in major courses must be retaken to attain a grade of C- or higher. A grade of C or better is required in CSD 449W in order to meet the ODU undergraduate writing requirement.

### Requirements

#### Lower-Division General Education

Written Communication ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written</a> )	6
Oral Communication ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral</a> )	3

Mathematics ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math</a> )	3
Language and Culture ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language</a> )	0-6
Information Literacy and Research ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information</a> )	3
Human Behavior ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#behavior">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#behavior</a> )	3
Human Creativity ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity</a> )	3
Interpreting the Past ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret</a> )	3
Literature ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature</a> )	3
Philosophy and Ethics ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy</a> )	3
The Nature of Science ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature</a> )	8
Impact of Technology ( <a href="http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact">http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact</a> )	3

Written Communication Skills: C or better required in both courses.

Mathematical Skills: STAT 130M recommended

The Nature of Science: To meet national certification requirements, students must complete one course in biological sciences selected from BIOL 105N, BIOL 106N, BIOL 110N/BIOL 111N, BIOL 117N/BIOL 118N, BIOL 121N/BIOL 122N and one course in either chemistry or physics selected from CHEM 105N/CHEM 106N, CHEM 121N/CHEM 122N, PHYS 101N, PHYS 111N, PHYS 231N.

Human Behavior: To meet national certification requirements, students must complete either PSYC 201S or SOC 201S.

#### Upper-Division General Education

- Option A: Approved Disciplinary Minor (a minimum of 12 hours determined by the department), or second degree or second major
- Option B: Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major)
- Option C: An approved Certification Program such as teaching licensure
- Option D: Upper-Division courses (totaling 6 hours) from outside the College of Health Sciences and not required by the major

#### Requirements for Graduation

Requirements for graduation include the following:

- Minimum of 120 credit hours.
- Minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken.
- Minimum overall cumulative grade point average of 2.50 in all courses taken toward the major.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward a minor.
- Completion of ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better. The W course must be taken at Old Dominion University.
- Completion of Senior Assessment.

### Speech-Language Pathology and Audiology Major

#### General Education

Complete lower-division requirements	41-47
Complete upper-division requirements (minimum of 6 credit hours)	6

Speech-Language Pathology and Audiology		
CSD 350	Survey in Communication Disorders (Fall, Spring)	3
CSD 351	Anatomy of Speech, Language, and Swallowing (Fall only)	3
CSD 352	Phonetics (Spring only)	3
CSD 446	Neural Bases of Communication and Swallowing Disorders (Fall, Spring)	3
CSD 447	Introduction to Language Disorders in Children (Fall, Spring)	3
CSD 449W	Clinical Observation and Writing in Communication Sciences and Disorders (Fall, Spring)	3
CSD 451	Introduction to Speech Sound Disorders (Fall, Summer)	3
CSD 453	Speech and Language Development (Fall, Spring)	3
CSD 458	Speech and Hearing Science (Spring, Summer)	3
CSD 460	Hearing Disorders and Basic Audiometry (Fall only)	3
CSD 461	Aural Rehabilitation I (Spring only)	3
CSD 465	Sign Language and Deaf Culture I (Fall, Spring)	3
CGE 450	Social Justice & Literacy for Immigrant and Refugee Learners	3
ENGL 370	English Linguistics	3
SPED 313	Fundamentals of Human Growth and Development: Birth through Adolescence	3
	or PSYC 351 Child Psychology	
SPED 400	Foundations of Special Education: Legal Aspects and Characteristics	3
SPED 411	Classroom and Behavioral Management Techniques for Students with Diverse Needs	3
CSD/SPED Elective (or other subject areas upon approval)		3
<b>Total Credit Hours</b>		<b>101-107</b>

Major courses in which a grade below C- was earned must be repeated to attain a grade of C- or higher. A grade of C or better must be earned in CSD 449W.

## Elective Credit

Elective credit may be needed to meet the requirement of 120 credit hours.

## Additional Requirements and Information

### Admission, Continuance and Exit Requirements

#### Admission

Requirements are as follows:

1. Students must have completed one year of course work with an overall grade point average of at least 2.50.
2. Students must have an interview with a program advisor.

#### Continuance

A cumulative grade point average of 2.50 in all major courses is required for continuing status. Grades below C- in major courses must be retaken to attain a grade of C- or higher. A grade of C or better is required in CSD 449W in order to meet the ODU undergraduate writing requirement.

#### Exit

Undergraduate majors must have satisfied University and program requirements, complete ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better, and have a grade point average of at least 2.50 in all major courses and at least 2.0 overall.

## Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
ENGL 110C	English Composition (C or better required)	3
PSYC 201S or SOC 201S	Introduction to Psychology (PSYC 201S suggested for national accreditation) or Introduction to Sociology	3
Human Creativity		3
Oral Communication		3
Nature of Science (select one of the following):		4
CHEM 105N/106N	Introductory Chemistry	
CHEM 121N/122N	Foundations of Chemistry I Lecture	
PHYS 101N	Conceptual Physics	
PHYS 111N	Introductory General Physics	
PHYS 231N	University Physics I	
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
STAT 130M	Elementary Statistics	3
Literature		3
Interpreting the Past		3
Nature of Science (select one of the following)		4
BIOL 105N	Biology for Nonscience Majors I	
BIOL 106N	Biology for Nonscience Majors II	
BIOL 110N-BIOL 111N		
BIOL 117N-BIOL 118N		
BIOL 121N-BIOL 122N		
Elective or Foreign Language (if required)		2-3
<b>Credit Hours</b>		<b>15-16</b>
<b>Sophomore</b>		
<b>First Semester</b>		
Select one of the following (C or better required):		3
ENGL 211C	Writing, Rhetoric, and Research	
ENGL 231C	Writing, Rhetoric, and Research: Special Topics	
Information Literacy and Research		3
CSD 350	Survey in Communication Disorders	3
SPED 313 or PSYC 351	Fundamentals of Human Growth and Development: Birth through Adolescence or Child Psychology	3
Elective or Foreign Language (if required)		2-3
<b>Credit Hours</b>		<b>14-15</b>

<b>Second Semester</b>		
Philosophy and Ethics		3
ENGL 370	English Linguistics	3
SPED 400	Foundations of Special Education: Legal Aspects and Characteristics	3
CSD 465	Sign Language and Deaf Culture I	3
Elective or Minor		3
<b>Credit Hours</b>		<b>15</b>
<b>Junior</b>		
<b>First Semester</b>		
Impact of Technology		3
SPED 411	Classroom and Behavioral Management Techniques for Students with Diverse Needs	3
CSD 351	Anatomy of Speech, Language, and Swallowing	3
CSD 453	Speech and Language Development	3
CSD 460	Hearing Disorders and Basic Audiometry	3
<b>Credit Hours</b>		<b>15</b>
<b>Second Semester</b>		
CSD 352	Phonetics	3
CSD 461	Aural Rehabilitation I	3
CGE 450	Social Justice & Literacy for Immigrant and Refugee Learners	3
Elective or Minor		3
Elective or Minor		3
<b>Credit Hours</b>		<b>15</b>
<b>Senior</b>		
<b>First Semester</b>		
CSD 446	Neural Bases of Communication and Swallowing Disorders	3
CSD 451	Introduction to Speech Sound Disorders	3
CSD 447	Introduction to Language Disorders in Children	3
Minor or Upper-Division General Education		3
Minor or Upper-Division General Education		3
<b>Credit Hours</b>		<b>15</b>
<b>Second Semester</b>		
CSD 449W	Clinical Observation and Writing in Communication Sciences and Disorders (C or better required)	3
CSD 458	Speech and Hearing Science	3
CSD/SPED elective (e.g., CSD 469)		3
Elective or Minor		3
Elective or Minor		3
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>120-122</b>

## Courses

### Communication Sciences & Disorders

#### CSD 350 Survey in Communication Disorders (3 Credit Hours)

This course is designed to acquaint students with the discipline of speech-language pathology and provide an introduction to developmental and acquired disorders of speech and language.

**Prerequisites:** Permission of instructor

#### CSD 351 Anatomy of Speech, Language, and Swallowing (3 Credit Hours)

Study of the psycholinguistic, acoustic, anatomical, and physiological aspects of speech and language, as well as anatomical and physiological aspects of swallowing.

**Prerequisites:** permission of the instructor

#### CSD 352 Phonetics (3 Credit Hours)

Study of the production and classification of sounds in American English; practice in phonetic transcription.

**Prerequisites:** permission of the instructor

#### CSD 446 Neural Bases of Communication and Swallowing Disorders (3 Credit Hours)

The content of this course focuses upon the neurological bases of speech, language, and swallowing, and communication and swallowing disorders that result from acquired neuropathologies affecting the central and peripheral nervous system.

**Prerequisites:** Grade of C- or better in CSD 350 and CSD 351

#### CSD 447 Introduction to Language Disorders in Children (3 Credit Hours)

This course presents an introduction to the various language disorders manifested by children and adolescents with a focus on characteristics, etiologies and general intervention approaches.

**Prerequisites:** a grade of C- or higher in CSD 453

**Pre- or corequisite:** ENGL 370 or ENGL 350

#### CSD 449W/549 Clinical Observation and Writing in Communication Sciences and Disorders (3 Credit Hours)

Speech-language pathology/audiology students will learn practical and foundational clinical skills necessary for deconstructing speech-language pathology treatment sessions, for identifying important parts-of-speech, and for completing disciplinary writing tasks. Objectives in this class are met using guided observations. This is a writing intensive course.

**Prerequisites:** Grade of C or better in ENGL 211C or ENGL 221C or ENGL 231C

**Pre- or corequisite:** Senior standing and a grade of C- or better in CSD 447

#### CSD 451/551 Introduction to Speech Sound Disorders (3 Credit Hours)

This course emphasizes causes, identification, and treatment of speech sound disorders.

**Prerequisites:** CSD 453

**Pre- or corequisite:** CSD 352

#### CSD 452 Introduction to Voice and Fluency Disorders (3 Credit Hours)

This content of this course focuses upon the basic tenets related to fluency and voice disorders. The purpose is to introduce students to the basic terminology, concepts of the role of articulation, phonation, and respiration as they relate to both fluency and voice disorders. Diagnosing and treating fluency and voice disorders will be discussed.

**Prerequisites:** Grade of C- or better in CSD 351

#### CSD 453/553 Speech and Language Development (3 Credit Hours)

This course reviews speech and language development from the perspective of the speech-language pathologist.

**Prerequisites:** Grade of C- or better in CSD 350

**CSD 458/558 Speech and Hearing Science (3 Credit Hours)**

The content of this course focuses upon basic acoustics, speech acoustics, psychoacoustics, speech perception, and clinical laboratory instrumentation. The course is designed to provide fundamental information regarding normal and abnormal aspects of speech and hearing processes.

**Prerequisites:** Grade of C- or better in CSD 460

**CSD 460/560 Hearing Disorders and Basic Audiometry (3 Credit Hours)**

A study of the physics of sound, anatomy, and physiology of the human ear, basic audiometry and hearing disorders.

**Prerequisites:** Permission of instructor

**CSD 461/561 Aural Rehabilitation I (3 Credit Hours)**

A study of audiological findings and the implications for hearing therapy; speech and language development of the deaf.

**Prerequisites:** Grade of C- or better in CSD 460

**CSD 465 Sign Language and Deaf Culture I (3 Credit Hours)**

Study of the grammatical structure and use of American sign language; exposure to ideals and culture of the deaf community. (This course does not satisfy the general education foreign language skills requirement.)

**Prerequisites:** Permission of the instructor

**CSD 466 Sign Language and Deaf Culture II (3 Credit Hours)**

Advanced studies of the grammar and symbols of American Sign Language, and appreciation for concepts and issues surrounding deaf culture. (This course does not fulfill the general education foreign language requirement.)

**Prerequisites:** Grade of C- or higher in CSD 465

**CSD 469 Practicum in Speech-Language Pathology (3 Credit Hours)**

The clinical practicum in speech-language pathology takes place off campus, giving students the opportunity to earn clinical hours with an ASHA-certified speech-language pathologist in their final semester. The practicum involves 90 hours, divided between direct and indirect clinical services. A background check is required before students can be placed at the practicum site. Students are required to have a GPA in the major of 3.25 or higher.

**Prerequisites:** A grade of B- or better in CSD 447 and CSD 451; senior standing

**Pre- or corequisite:** CSD 449W

**CSD 497/597 Independent Study in Communication Sciences and Disorders (1-3 Credit Hours)**

Independent study of special topics in communication sciences and disorders.

**Prerequisites:** Permission of the instructor

**CSD 498 Directed Research in Speech-Language Pathology (1-6 Credit Hours)**

Supervised research on a specific problem in speech-language pathology. Regular meetings with faculty and a written/oral report are required.

**Prerequisites:** permission of instructor