

New York University Bulletin



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Communicative Sciences and Disorders

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Program Director

Treating Communicative Disorders from Infancy Through Adulthood

Communicative sciences and disorders is a field dedicated to the understanding of normal communication processes and the application of that knowledge to the identification, treatment, and prevention of communication disorders in children and adults. The field draws on the domains of linguistics, psychology, and biological and physical science to capture the normal processes of communication, as well as the nature of communication disorders and their effects on the individual at various stages of life. Those involved in the field of communicative sciences and disorders seek to understand and minimize the impact of disordered speech, language, hearing, and swallowing processes on a person's educational, social, or vocational success. Speech-language pathologists are equipped to provide clinical services to individuals who have difficulty with speaking, using language, or swallowing, and they work in such diverse environments as schools, community speech and hearing centers, general hospitals, rehabilitation centers, otolaryngology

units, skilled nursing facilities, private practices, and corporate offices. Audiologists are professionals who diagnose hearing, balance, and auditory processing disorders and provide audiologic rehabilitation services such as hearing aid and cochlear implant evaluation and monitoring. Audiologists work with individuals across the life span, including performing newborn infant hearing screenings in hospitals and evaluating patients in physician's offices, skilled nursing facilities, child development centers and public schools, and university clinics. Audiologists also specialize in cochlear implants, serving as primary members of cochlear implant teams.

Speech-language pathology is an exciting, stimulating field dedicated to the identification and remediation of communication impairments from infancy through adulthood; it is a field known for its diversity of career opportunities. Speech-language pathologists can work with a variety of populations, including children who have difficulty learning language or who have communicative disorders associated with autism, cerebral palsy, aphasia, cleft palate, or stuttering. They also work with

adults who acquire communicative disorders due to trauma, cancer, degenerative diseases such as Parkinson's disease, or stroke.

A Strong Preprofessional Education

Our baccalaureate degree program in communicative sciences and disorders provides you with the fundamentals necessary for graduate study, which is required for state licensure and national certification in speech language pathology or audiology by the American Speech-Language-Hearing Association. The preprofessional program provides a comprehensive understanding of communication disorders across the life span.

A Solid Foundation in the Liberal Arts

Our program is designed to integrate arts and science course work with the study of normal and disordered human communication processes. Required liberal arts courses in Western and world cultures, mathematics and statistics, science, psychology, writing, foreign language, and intercultural communication help you understand your course work in speech pathology

within larger social contexts. You may also use elective courses in the liberal arts to pursue a special interest in an area related to your specialization, such as linguistics, foreign language, or psychology, or you may declare a minor in a field of your own choosing, ranging from nutrition to art, music to metropolitan studies.

Your Freshman and Sophomore Years

During your first two years of study, you take a balance of liberal arts courses and core courses in communicative sciences and disorders. You explore the scope of practice of speech-language pathologists and audiologists and the diversity of children and adults who may require the services of these clinicians in their lifetime. You also begin to develop basic scientific understanding of normal and disordered communication.

Your Junior and Senior Years

During your junior and senior years, you deepen your understanding of communicative sciences and disorders through course work in such areas as language development, audiology,

and articulation and language disorders among children, adults, and the elderly. This life-span approach to speech, language, hearing, and swallowing disorders allows you to refine your interests and begin to determine the disorder category, workplace setting, client population, or career specialization for which you are best suited.

Combining Theory and Practice

You will also have the opportunity to pair your theoretical knowledge with practical application while observing ongoing therapy in our on-campus, state-of-the-art speech-language pathology and audiology clinic as well as in various clinical settings around the metropolitan area. These experiences allow you to develop clinical skills through exposure to a variety of communicative disorders and offer opportunities to develop insight into assessment and remediation of communication disorders.

Research Opportunities

As you progress through the curriculum, you become a skilled consumer of research and are encouraged to become involved in

YOUR CAREER OPPORTUNITIES

The American Speech-Language-Hearing Association (ASHA) has designated the master's degree as the entry-level degree for certification as a speech-language pathologist and a Doctor of Audiology degree (Au.D.) as the entry-level credential for practicing as an audiologist. Students who complete our baccalaureate Program in Communicative Sciences and Disorders may choose to continue on to graduate study as preparation for a rewarding career as a clinical practitioner in either speech-language pathology or audiology.

SPEECH-LANGUAGE PATHOLOGY

Graduates from the Bachelor of Science Program in Communicative Sciences and Disorders are well equipped to begin graduate study in speech-language pathology. Speech-language pathologists work directly with infants, children, adolescents, adults, and the elderly to diagnose and treat communication and swallowing disorders in varied settings such as schools, hospitals, skilled nursing facilities, early intervention settings, universities, and private practice. Speech-language pathologists diagnose and remediate disorders that individuals may be born with or demonstrate as children, such as cleft palate, stuttering, or delayed language or speech development. They also diagnose and treat those disorders that may be acquired through a brain injury, stroke, or neurological disease such as Parkinson's or Alzheimer's disease.

Demand for speech-language pathologists is significant and continues to grow. According to the U.S. Bureau of Labor Statistics, speech-language pathology ranks in the top 20 large-growth occupations that require a master's or professional degree projected through 2014. An 11 percent increase in employment of speech-language pathologists is projected from 2006-2016.

AUDIOLOGY

Graduates from the Bachelor of Science Program in Communicative Sciences and Disorders are well equipped to begin a Doctor of Audiology program. Audiologists are professionals who diagnose hearing, balance, and auditory

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research projects with department faculty. At the completion of the sophomore or junior year, students with superior academic records can apply to participate in the program's research program. Selected students participate in an independent study project with a faculty mentor and are invited to attend selected sessions of the department's research colloquium. Students choose a specific area of research interest and learn to critically evaluate research and identify potential research topics. They will then plan and conduct an independent research project or work with their mentor on an existing project and write a thesis that could be submitted for publication.

Broadening Your Perspective Through International Study

Study abroad options abound for undergraduate students. Students may also choose to spend a semester abroad at one of NYU's academic centers in Accra, Berlin, Buenos Aires, Florence, London, Madrid, Paris, Prague, Shanghai, or Tel Aviv.

Other Programs to See:

- Childhood Education/Childhood Special Education
- Early Childhood Education/Early Childhood Special Education
- Media, Culture, and Communication

AUDIOLOGY

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processing disorders and provide audiologic rehabilitation services such as hearing aid and cochlear implant evaluation and monitoring. Audiologists work with individuals across the life span, including performing newborn infant hearing screenings in hospitals and evaluating patients in physician's offices, skilled nursing facilities, child development centers and public schools, and university clinics. Audiologists also specialize in cochlear implants, serving as primary members of cochlear implant teams.

Audiology was recently selected by *The U.S. News and World Report* as one of its "30 Best Careers of 2009." The need for audiologists is also expected to grow by 10 percent in the coming years, according to the U.S. Bureau of Labor Statistics.

Both speech-language pathology and audiology are certified by the American Speech-Language-Hearing Association (ASHA), the national professional, scientific, and credentialing organization for speech-language pathologists, audiologists, and speech, language and hearing scientists.

BACHELOR OF SCIENCE PROGRAM IN COMMUNICATIVE SCIENCES AND DISORDERS

The 128-point curriculum in communicative sciences and disorders includes courses that satisfy requirements in your major area of study as well as the liberal arts. You will take 64 points in liberal arts courses, including 12

points in guided electives. The major area of study provides you with 54 points in specialized courses in communicative sciences and disorders, such as language development, neurogenic disorders of speech and lan-

guage, and anatomy and physiology of the speech and hearing mechanisms. An additional 10 points of unrestricted electives are included in the curriculum to encourage you to explore areas of interest of your own choos-

ing. Course work in psychology, statistics, and linguistics integrates these related fields into the comprehensive study of communicative sciences and disorders across the life span in preparation for further graduate study.

SAMPLE CURRICULUM WORKSHEET

Freshman Year 32 Points

FALL SEMESTER	MAJOR	SPRING SEMESTER	Foreign Language
LIBERAL ARTS	New Student Seminar. E03.0001 0	LIBERAL ARTS	V•••••4
Foundations of Contemporary Culture: Texts and Ideas. V55.04••4	Introduction to Communicative Sciences and Disorders I. E34.00172	Foundations of Contemporary Culture: Cultures and Contexts. V55.05••4	MAJOR
Writing the Essay. V40.0100 . . .4	TOTAL <u>14</u>	The Advanced College Essay. E52.01104	Introduction to Communicative Sciences and Disorders II. E34.00182
Human Biology. V23.00064		Foundations of Scientific Inquiry: Quantitative Reasoning. V55.01••4	TOTAL <u>18</u>

Sophomore Year 34 Points

FALL SEMESTER	MAJOR	SPRING SEMESTER	Introduction to Articulation Disorders. E34.11013
LIBERAL ARTS	Neuroanatomy and Physiology of Communication. E34.0009 . . .3	LIBERAL ARTS	American Sign Language I. E64.00914
Introduction to Psychology. V89.00014	Phonetics and Phonemics of American English. E34.0061 . .3	Foundations of Contemporary Culture: Expressive Culture. V55.07••4	Unrestricted Elective3
Liberal Arts Elective V•••••4	Science and Neurology of Language. E34.10453	MAJOR	TOTAL <u>17</u>
	TOTAL <u>17</u>	Anatomy and Physiology of Speech and Hearing Mechanism. E34.00083	

Junior Year 31 Points

FALL SEMESTER	MAJOR	SPRING SEMESTER	An Introduction to Methods and Materials for Diagnosis and Therapy in Communication Disorders. E34.10653
LIBERAL ARTS	Language Development in the Preschool Years. E34.1601 . . .3	LIBERAL ARTS	Introduction to Language Disorders in Children. E34.12073
Statistics for the Behavioral Sciences. V89.00104	Introduction to Audiology. E34.12303	Societies and Social Science. E/V••••4	TOTAL <u>17</u>
Survey of Developmental Psychology: Introduction. E63.00104	TOTAL <u>14</u>	Natural Science I. V55.4	
		MAJOR	
		Audiology Intervention Strategies with Children. E34.12053	

Senior Year 31 Points

FALL SEMESTER	MAJOR	SPRING SEMESTER	Communication and Aging. E34.10153
LIBERAL ARTS	Introduction to Neurogenic Communication Disorders. E34.10123	LIBERAL ARTS	Acoustic Phonetics. E34.14023
Liberal Arts Elective. V•••••4	Intercultural Communication. E59.17354	Liberal Arts Elective. V•••••4	Unrestricted Elective
MAJOR	TOTAL <u>14</u>	MAJOR	TOTAL <u>17</u>
Unrestricted Elective3		Reading and Writing in Children with Speech and Language Disorders. E34.12103	

GRAND TOTAL: 128 Points