New York University Bulletin

NYU Steinhardt
Steinhardt School of Culture, Education, and Human Development

Applied Psychology
Art
Communication
Education
Health
Music
New York University was one of the first universities to offer advanced degree programs in speech-language pathology and audiology in the New York area. The program leading to the Master of Arts degree is available for college graduates seeking the Certificate of Clinical Competence in Speech-Language Pathology from the American Speech-Language-Hearing Association (ASHA) and New York State licensure as speech-language pathologists. The master’s program prepares students to remediate all communication disorders. In-depth course work and practica are designed to give students expertise in areas in which there is great demand—aphasia; voice disorders; craniofacial anomalies; motor speech disorders; stuttering; phonology; audiology; geriatric, infant, and child language disorders; and dysphagia. The many nationally renowned hospitals, clinics, and schools in the New York City area provide students with exceptional opportunities for clinical experience under the supervision of a licensed and certified speech-language pathologist.

A program leading to the Doctor of Philosophy degree is available to practicing professionals in speech-language pathology and audiology fields. The program emphasizes the development of knowledge and skills as researchers and educators.

**Faculty**

Sharon M. Antonucci, Assistant Professor. B.A. 1997, Connecticut College; M.S. 1999, Columbia; Ph.D. 2005, Arizona; CCC-SLP.

Research interests include neurogenic communication disorders in adults, neuroimaging, and the effects of normal aging on language and cognition.

Offiong Aqua, Clinical Associate Professor. M.D. 1986, Friendship (Russia).

Joint appointment in the Departments of Occupational Therapy, Physical Therapy, and Speech-Language Pathology and Audiology. Research focuses on anatomy.


Special interest and expertise in voice, fluency, and speech acoustics and aerodynamics.

Gina Canterucci, Clinical Instructor. B.S. 1994, Ohio; M.A. 1997, Case Western Reserve; CCC-SLP.

Special interest and expertise in diagnosis and treatment of neurogenic communication disorders and foreign accent reduction.

Maria Grigos, Assistant Professor. M.S. 1993, Ph.D. 2002, Columbia; CCC-SLP.

Special interest and expertise in normal development of speech and developmental motor speech disorders.

Harriet B. Klein, Professor. B.A. 1958, M.A. 1960, Brooklyn College (CUNY); Ph.D. 1978, Columbia; CCC-SLP/L.

Special interest and expertise in child language acquisition and disorders and phonological disorders.

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Notice: The programs, requirements, and schedules listed herein are subject to change without notice. A directory of classes is published each term with a current schedule. For the most up-to-date schedule changes, please consult ALBERT, NYU’s student information Web site.
Neurolinguist with purview over motor speech and adult language disorders, right hemisphere communication, voice perception, and psycholinguistics.

Celia F. Stewart, Chair and Associate Professor. B.S. 1973, Colorado State; M.S. 1976, Phillips; Ph.D. 1993, New York; CCC-SLP/L.

Special interest and expertise in adult neurogenic disorders, normal voice production, voice disorders, swallowing disorders, anatomy and physiology, acoustics, assessment and rehabilitation.

TRAINING SPECIALISTS

Anne Marie Skvarla, B.S., M.A.; CCC-SLP, Clinic Director
Erasmia Ioannou Benakis, B.A., M.A.; CCC-SLP, Off-Campus Clinic Director

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Practicum Requirements

Audiology.

students in all graduate programs are admitted in the fall only.

Students may also earn 60 New York State continuing education units.

Practicum Abroad in Dublin, Ireland: Students have the opportunity to participate in a semester abroad practicum experience in Dublin, Ireland, where they provide speech-language services to children diagnosed with autism and Down syndrome. The practicum opportunity offers experience with providing assessments and rehabilitation to

specific clinical experiences may be substituted for an advanced linguistics course within a previous five-year period.

Academic Standards: All master’s candidates must maintain an average of 3.0 or better and will be required to pass a written comprehensive examination during or following the final semester of course work and/or practicum or complete a research project. A grade of D in any course or a mean GPA of less than 3.0 in any given semester constitutes grounds for dismissal from the Program in Speech-Language Pathology and Audiology.

Practicum Requirements (6 points): Students’ clinical experiences include a variety of clinical settings, client populations, and age groups. Graduate students complete a minimum of four semesters of clinical practicum. The first two semesters of clinical education are completed in the on-campus clinic. The first semester focuses on evaluations, and the second semester focuses on treatment. Following the successful completion of the on-campus practicum, students are placed off campus for two semesters. Typically, the first off-campus placement is in a pediatric setting, and the second is in an adult care setting. At least 50 supervised clock hours are completed in a minimum of three different types of clinical settings. If students have not completed the necessary clock hours following the four clinical education placements indicated above, a fifth placement is required. All students are required to complete a minimum of 400 supervised clinical hours. Twenty-five hours are spent in clinical observation and at least 325 clinic clock hours are completed during the graduate program.

Prior to placement in a practicum, all students must be evaluated for speech and language performance and writing skills in accordance with the policies outlined in the Department of Speech-Language Pathology and Audiology Master of Arts Student Handbook.

Students register for the practicum course Advanced Clinical Practicum in Speech Pathology and Audiology E34.2117 for each practicum registration until all clinical contact hours have been completed. Practicum registration requires permission of the off-campus clinic director or the on-campus clinic director. A maximum of 6 points of practica may be credited toward the degree, although students may be required to register for additional practica in order to complete the required contact hours. All practica require full-time, daytime attendance at practicum sites. A student earning a grade of less than C will be placed on clinical probation.

Practicum students are assigned by the off-campus clinic director to at least two of the program’s affiliated clinical facilities, which include Mount Sinai Hospital, NYU Hospitals Center, Rusk Institute of Rehabilitation Medicine (IRM), St. Luke’s Roosevelt Hospital Center, the International Center for the Disabled (ICD), and many others. All master’s candidates must maintain an average of B or better and will be required to pass a written comprehensive examination during or following the final semester of course work and/or practicum.

Terminal Experience: Students may choose from two options to meet the comprehensive examination requirement for the Master of Arts degree. The first option is to earn a passing score of 600 or greater on the PRAXIS Examination in Speech-Language Pathology (0350) offered by ETS and approved by ASHA. The second way to meet the terminal experience is for master’s students to do a research project in place of the Comprehensive Examination. If the research option is selected, students must also successfully complete one semester of the research colloquium course, one semester of independent study, and one 1-point elective. During the first semester of the colloquium, with the guidance of a faculty member, the student selects a research topic and submits a written proposal. The project is to be completed by the end of the second semester.

ADMISSION REQUIREMENTS

Students in all graduate programs are admitted in the fall only.

Early Decision application deadline: January 6.

See general admission section, page 204.

SPECIAL OPPORTUNITIES

Summer Abroad in Lund, Sweden: The Department of Speech-Language Pathology and Audiology offers a 6-point, five-week summer study abroad program in Lund, Sweden, for post baccalaureate and master’s level students in speech-language pathology and post-master’s speech-language pathologists. Students may also earn 60 New York State continuing education units.

Sweden is known for its state-of-the-art approaches to speech science and speech-disorder remediation. Housed in the Department of Logopedics and Phoniatrics of Lund University, the program combines lectures with directed enrichment activities focusing on motor speech disorders and swallowing disorders and drawing on the expertise of Lund University neurologists, otolaryngologists, radiologists, and speech-language pathologists.

Summer Abroad in London, England: Broadening Horizons in Speech and Language: A Perspective from London. This program is for students who have not completed all of their undergraduate prerequisites. Two courses for a total of 6 points are offered: Introduction to Articulation Disorders and Reading and Writing in Children with Speech and Language Disorders.

In order to qualify for this program, students would need the following prerequisites: Anatomy and Physiology of the Speech Mechanism and Phonetics and Phonemics.

Practicum Abroad in Dublin, Ireland: Students have the opportunity to participate in a semester abroad practicum experience in Dublin, Ireland, where they provide speech-language services to children diagnosed with autism and Down syndrome. The practicum opportunity offers experience with providing assessments and rehabilitation to

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children five days per week, from 9 a.m. to 6 p.m. This practicum fulfills the pediatric practicum requirement and allows students to gain skills working with children while learning to interact with and educate caregivers. Students will be supervised by an ASHA-certified and state-licensed speech-language pathologist. Upon completion, students will receive Irish certification.

The Ph.D. Program in Speech-Language Pathology and Audiology provides students with the knowledge and skills as researchers and educators. Doctoral candidates take advanced-level courses in the school and the University. Candidates who hold a master’s degree in speech-language pathology or audiology must take a total of 60 points of doctoral course work, complete the candidacy requirements, and develop and defend a dissertation to complete the doctoral degree.

**CAREER OPPORTUNITIES**
Alumni from NYU’s doctoral program have become prominent professors and researchers at many leading universities in the metropolitan area and across the country.

**DEGREE REQUIREMENTS**
Depending on the student’s deficiencies, 24 points in departmental elective course work are required. In addition, 36 points in core courses are also necessary to graduate. **Foundations** (6 points). Specialized Research Methodology (3 points). Cognate Courses (6 points). Department Content Seminar (3 points). Dissertation Proposal Seminar (3 points). Research Electives (15 points).

**ADMISSION REQUIREMENTS**
Prefered areas of previous academic concentration include speech-language pathology and audiology and speech and hearing sciences. If the applicant does not hold an approved master’s degree, she or he must earn a supplementary master’s in one of the programs within the department. Also required are three letters of recommendation (to be sent directly to the department chair), a personal interview, a supplemental departmental application, and extensive personal essays. The department looks for applicants with strong communication skills and a personal commitment to the profession of speech-language pathology and a focus on research. See general admission section, page 204.

**FUNDING**
Graduate assistantships for two academic years are available on a competitive basis; these pay a stipend and have full tuition coverage. Other means of financial support may be available for a third year (e.g., fellowships, teaching, funding from faculty grants).

The clinic is a part of the Department of Speech-Language Pathology and Audiology, providing services to NYU and the community at large.

The clinic specializes in the diagnosis and treatment of the various disorders of speech, language, and hearing with infants, toddlers, children, adolescents, adults, and geriatrics. Types of communication disorders that can be treated at the clinic include delayed language development, stuttering, prominent foreign accents, hearing impairment, articulation and voice disorders, and impaired speech and/or language caused by strokes, traumatic brain injury, or other neurological disorders.

Services provided by graduate student clinicians include speech and language diagnosis, speech and language therapy, individual and group sessions, and hearing screenings.

The clinic director, faculty, and professional supervisors provide continuous, ongoing, direct supervision of the assessment and intervention activities in the clinic. The physical facilities of the clinic and the audiometric suite are located within and adjacent to the department offices.

The speech-language-hearing clinic is a part of the department of speech-language pathology and audiology, providing services to nyu and the community at large.

The clinic specializes in the diagnosis and treatment of the various disorders of speech, language, and hearing with infants, toddlers, children, adolescents, adults, and geriatrics. Types of communication disorders that can be treated at the clinic include delayed language development, stuttering, prominent foreign accents, hearing impairment, articulation and voice disorders, and impaired speech and/or language caused by strokes, traumatic brain injury, or other neurological disorders.

Services provided by graduate student clinicians include speech and language diagnosis, speech and language therapy, individual and group sessions, and hearing screenings.

**Courses**
The courses listed herein are to be offered in 2007-2009.

**Anatomy and Physiology of the Speech and Hearing Mechanism**
E34.0008 45 hours: 3 points. Spring. A comprehensive study of the anatomical and physiological bases of speech production, speech perception, and swallowing. The structures and mechanics of respiration, phonation, resonance, articulation, speech perception, and swallowing are studied.

**Neuroanatomy and Physiology of Communication**
E34.0009 45 hours: 3 points. Fall. A comprehensive study of the neurological bases of speech and language production, speech and language perception, and swallowing. The neurological basis of language, respiration, phonation, respiration, phonation, resonance, articulation, speech perception, and swallowing are studied.

**Introduction to Speech and Language Disorders**
E34.0017 45 hours: 3 points. Fall. A presentation of clinically normal voice, speech, and language processes provides a foundation for an overview of major categories of communication disabilities. Includes etiologies and typical symptomatology of major communication disorders.

**Phonetics and Phonemics of American English**
E34.0061 45 hours: 3 points. Fall. A study of the production, description, and classification of speech sounds; English sounds, stress, and intonation; phonemes and allophones, ear training, phonetic and phonemic transcription.

**Acoustic Phonetics**
E34.0402 30 hour: 2 points. Spring. Prerequisites: E34.1008 (E21.1008) and E21.1061 or permission of instructor. A broad-based study of acoustic phonetics including acoustic theory and measurement; distinctive feature systems; and integration of physiologic and perceptual characteristics with concomitant acoustic features.
Articulation Disorders in Children and Adults
E34.1101 30 hours: 2 points. Spring.
Prerequisites: E34.0017 and E21.1061 or permission of instructor.

Science and Neurology of Language
E34.1045 45 hours: 3 points. Spring.
Current models of the structure and process in normal human language with reference to brain structures. Levels, elements, and structure in language are studied from the perspective of evolution, history, social and regional dialects, multilingualism, and neurological text.

Reading and Writing in Children with Speech and Language Disorders
E34.1210 45 hours: 3 points. Spring.
Study of the developmental reading and writing processes in children with speech and language impairments; the relationships of speech and oral language skills to those processes; reading disabilities; and the role of the speech and language pathologist working with school-age children.

Introduction to Audiology
E34.1230 45 hours: 3 points. Fall.
Principles and techniques of pure tone and speech audiometry; interpretation of audiograms; consideration of etiologies and auditory characteristics of major types of hearing impairment.

Language Development in the Preschool Years
E34.1601 45 hours: 3 points. Fall.
Focus is on research of normal language acquisition and development with reference to three oral language components: acquisition and development with reference to three oral language components: phonetic and motoric impairments.

Augmentative and Alternative Communication
E34.2015 30 hours: 3 points. Fall.
Provides a comprehensive overview of communicative approaches for individuals who are nonverbal or who have severe communication disorders. Special techniques and equipment are employed to allow these individuals to communicate effectively. A thorough examination of assessment and therapeutic processes is presented with emphasis on communication disorders secondary to congenital/acquired cognitive and motoric impairments.

Motor Speech Disorders
E34.2016 30 hours: 3 points. Spring.
Diagnosis and treatment management of motor speech disorders, including dysarthrias and speech dyspraxia.

Therapeutic Approaches to Speech Pathology: Voice Disorders
E34.2019 30 hours: 3 points. Spring.
Hypothesis development and testing for patients with complex dysphonia and aphony. Decisions based on current research findings. Aphony secondary to laryngectomy included. For advanced master's and doctoral students and professionals in the field who work with voice patients.

Therapeutic Approaches to Speech Pathology: Aphasia
E34.2020 30 hours: 3 points. Spring.
Emphasis on the theoretical basis of therapy with the adult aphasic and on practical application of those bases through the development of specific therapies for specific problems of aphasia. Information about credentials, ethical practices, and multicultural issues are addressed.

Adult Language Disorders
E34.2021 30 hours: 3 points. Fall.
Introduction to the historical, linguistic, and psychological rationales for the evaluation and treatment of verbal impairment secondary to brain damage. Clinical tests, contemporary research, and treatment methodology.

Craniofacial Anomalies
E34.2022 30 hours: 3 points. Fall.
Analysis of etiological conceptions of cleft palate and orofacial anomalies related to articulatory and phonatory disorders. Clinical tests and procedures for general and specific therapy.

Neurogenic Speech Disorders in Children
E34.2023 30 hours: 3 points. Spring.
Analysis of etiological conceptions of cerebral palsy and related linguistic, articulatory, and phonatory disorders. Clinical tests and procedures for general and specific therapy.

Fluency Disorders
E34.2028 30 hours: 3 points. Spring.
Review of the most recent theories of stuttering behavior and the clinical procedures that flow from them. Differential diagnostic techniques, their interpretation, and implications for treatment of programmed and nonprogrammed nature are discussed.

Voice Disorders
E34.2027 30 hours: 3 points. Fall.
Anatomic, physiologic, acoustic, and perceptual characteristics of selected voice disorders. Research, evaluation, and therapy are discussed. Emphasis on case presentations, role playing, and other class participation.

Language Disorders in Children
E34.2039 30 hours: 3 points. Fall.
Prerequisites: E34.0017 and E34.1601, or equivalents, or permission of instructor.
Examination of assessment and remediation of language disorders associated with varied etiological factors. Considers cognitive and pragmatic aspects of language. Focuses on the determination of goals and intervention procedures for children from the prelinguistic stage through the school years.

Advanced Anatomy, Physiology, and Neurology of the Speech and Hearing Mechanisms
E34.2041 30 hours: 3 points. Fall.
An advanced treatment of the anatomy, physiology, and neurology of the articulatory, phonatory, respiratory, and auditory systems. Both peripheral and central connections are considered. Special emphasis is placed on the functional systems of importance to the speech pathologist and audiologist.

Advanced Audiology
E34.2051 30 hours: 3 points. Fall.
Prerequisite: E34.1230 or equivalent.
Techniques of advanced pure tone testing and speech audiometry; techniques and rationale of special hearing tests; interpretation of audiologic immittance evaluation findings; principles of differential audiometry; special problems in audiologic assessment.

Dysphagia in Adults and Children
E34.2060 30 hours: 3 points. Spring.
Prerequisite: E34.2016.
Develop a working knowledge of the normal anatomy and physiology of the swallowing mechanism of children and adults and the breakdowns in swallowing that can result from neurological, structural, and behavioral disorders. Students focus on interpreting the results of bedside, radiographic, and fiber-optic studies and rehabilitation of swallowing. Emphasis is on problem solving, selection of instrumentation, evaluation procedures, and appropriate treatment strategies.

Dysphagia in Infants and Toddlers
E34.2062 15 hours: 1 point. Fall.
This course develops knowledge of anatomy and physiology of swallowing in pediatric patients on a developmental continuum from infancy through the first three years of life, and the swallowing abnormalities in this patient population resultant of anatomic/structural deficit, neurological dysfunction, and/or other underlying pathophysiological factors. This course focuses on building the ability to interpret findings from clinical examination and radiographic studies.
of swallowing in babies, to select appropriate treatment strategies in accord with findings, and to understand the medical complexities and consequent problem solving and decision making involved in the management of dysphagia in the birth to age three patient populations.

**Baby Trachs**

E34.2067 15 hours: 1 point. Spring. The problem solving and decision making involved in the management of physiologically based problems in tracheostomized babies with emphasis on application of the speech and swallowing evaluation and management and breathing valves.

**Principles of Intervention with Speech-Language Disorders**

E34.2075* 30 hours: 3 points. Spring. Prerequisite: E34.2039 and E34.2111.

Principles of problem solving and decision making involved in intervention planning across communication-disorder types. Use of diagnostic data in formulating goals and procedures of treatment. Sources of knowledge underlying goal and procedure development, including (1) the nature of language, (2) baseline data, (3) factors maintaining communication disorders, and (4) language learning theories, are addressed.

**Phonological Analysis of Normal and Disordered Speech**

E34.2108* 30 hours: 3 points. Fall. Prerequisite: E34.1101, or equivalent, or permission of instructor.

Emphasis on research in phonological development and the application of theories of development to assessment and intervention procedures with the phonologically impaired. Phonological disorders are analyzed according to a number of alternative models, making reference to phonological features, processes, and restraints.

**Critical Evaluation of Research in Speech and Hearing Sciences and Disorders**

E34.2109* 30 hours: 3 points. Fall. Required of all master's degree candidates.

Consideration of the formulation and design of research problems; collection, processing, and interpretation of data. Evaluation of research in speech and hearing sciences and audiology.

**Current Issues in Speech-Language Pathology and Audiology**

E34.2110* 21 hours: 1 point. Fall.

Major contemporary issues that the speech-language professional meets in employment settings are explored. Units of study and discussion include (1) multicultural populations and their sociocultural, developmental, etiological, and linguistic differences; (2) AIDS information and guidelines for delivery of services; (3) drug and alcohol abuse; (4) recognition of symptoms of child abuse.

**Diagnostic Methods in Speech Pathology and Audiology I**

E34.2111* 30 hours: 3 points. Fall and spring. Required of all master's degree candidates. Study of diagnostic principles and procedures in speech pathology and audiology. Concentrates on standardized testing procedures, case histories, interview techniques, and report writing. Students gain experience in obtaining, integrating, interpreting, and reporting all relevant speech, language, and hearing data. (There is a $50.00 departmental fee for maintenance and provision of diagnostic materials each semester.)

**Computerized Analysis of Language Transcripts**

E34.2114 10 hours: 1 point. Fall, spring. Technology-based methods for transcription and analysis of language samples in the assessment of communication disorders. How the analysis of language samples collected during spontaneous speech production plays an important part in the assessment of such disorders and provides a key feature of research involving this population. Students video-record an interaction between two speakers, learn to use digitalized image and sound for transcription of language samples, and use a computerized method (the SALT program) for analyzing language samples collected during spontaneous speech.

**Advanced Clinical Practicum in Speech Pathology and Audiology**

E34.2117 45 hours per point: 1-2 points. Fall and spring. Registration by permission of adviser. Minimum passing grade for practicum courses is B. Students attend a two-hour lecture/seminar once a week. In addition, students are assigned to various community, school, hospital, industrial, and rehabilitation centers. Comprehensive and intensive clinical experience with children and adults having any of a variety of communicative disorders.

**Aural Rehabilitation: Adults**

E34.2127 30 hours: 3 points. Spring. Prerequisite: E34.2051, or equivalent, or permission of adviser. Special problems of audiologic management of adult patients who are hearing impaired, with special attention to the geriatric population. The various forms of presbycusis and implications for audiological rehabilitation. Problems of hearing aid selection and adjustment to various forms of portable amplification and assistive listening devices for adults with various types of sensorineural hearing impairment.

**Independent Study**

E34.2300* 45 hours per point: 1-6 points. Fall, spring, summer; hours to be arranged. For description, see page 210.

**Speech-Language Pathology Research Colloquium I**

E34.2420 15 hours: 1 point. Fall, spring. Students participate in discussion of research topics and engage in research out of class with a faculty member. During this time, students are also exposed to examples of scholarly research presented by guest speakers, who are eminent researchers in speech-language pathology and related areas. This course is required for three semesters for doctoral students but may also be taken by master's-level students for a single semester. Doctoral students doing research with faculty present results at the colloquium.

**Speech Science: Instrumentation**

E34.2515 20 hours plus 10 hours arranged for lab sessions: 2 points. Fall. An advanced and detailed study of the current instrumentation used to evaluate the acoustic, aerodynamic, and physiological aspects of speech production in clinical settings and in speech research. Students gain expertise in the instrumental evaluation of normal subjects.

**Seminal Readings in Speech-Language Pathology and Audiology**

E34.3001 30 hours: 3 points. Fall, spring. This doctoral level seminar introduces students to some of the important, seminal writings in the fields of speech-language pathology and audiology. These articles chosen for study provide historical perspectives and exposure to content in areas of speech, language, and hearing science relative to normal processes and developmental and acquired disorders of communication, providing both breadth and depth of understanding of important content and issues in the field. Students have the opportunity to critically evaluate and discuss research with multiple faculty members who represent a wide range of areas of expertise. This allows students to hone their own skills as critical consumers and disseminators of research.

**Advanced Study: Adult Communication Disorders**

E34.3021 30 hours: 3 points. Spring. A doctoral-level course with lecture and discussion covering advanced topics in aphasia, pragmatics of communication, nonliteral language, affective and linguistic prosody, voice recognition, language in the dementias, acquired alexia and agraphia, and schizophrenic and other psychiatric speech disorders.