

1994

Programs in Communication Sciences and Disorders: Postbaccalaureate Au.D. Curriculum [1994]

Nova Southeastern University

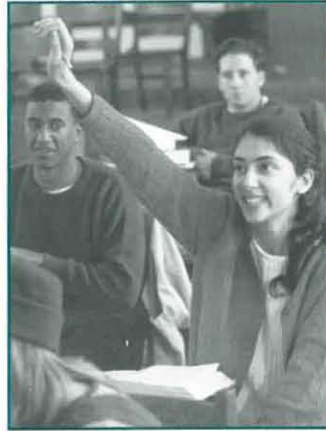
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PROGRAMS IN
COMMUNICATION SCIENCES
AND DISORDERS

POSTBACCALAUREATE
AU.D. CURRICULUM

A B R A H A M S . F I S C H L E R

Graduate School of Education
& Human Services

Program Overview

The Nova Southeastern University postbaccalaureate Au.D. degree program is a 91-credit, rigorous academic curriculum that combines basic science and professional course work with applied clinical training. Students obtain more than 2,000 clinical clock hours in audiology in a variety of practice settings. Faculty members and clinical supervisors mentor students and model professional excellence. Students complete a professional research project, which can be an applied problem-solving project or an applied clinical research project.

Mission Statement

The Programs in Communication Sciences and Disorders are dedicated to the education of future and currently practicing speech-language pathologists and audiologists. Within the scientifically based curriculum, the faculty incorporates models of best practice and fosters critical-thinking skills by nurturing the development of future leaders. Our philosophy is to maintain high-quality programs to respond to changing trends and issues impacting our profession.

Admission Requirements to Postbaccalaureate Au.D. Program

- Nonrefundable application fee of \$50
- Completed application
- Official transcripts indicating conferral of a bachelor's degree by a regionally accredited institution with a minimum GPA of 3.2
- Three letters of recommendation from individuals who can attest to the applicant's ability to be successful in the postbaccalaureate Au.D. program, e.g., professors
- Personal interview

To make an appointment to visit our campus offices or to obtain program information, contact us 8:30 a.m.–5:00 p.m., Monday–Friday:

Phone: (954) 262-7761

Toll free: 800-986-3223, ext. 7761

Fax: (954) 262-3826

Email: packerb@fcae.nova.edu

Web site: www.fcae.nova.edu/csd

Cost of Study: Cost per credit hour is \$620.

Value Added: The value of the program is enhanced by charging for a limited number of credit hours for clinical practicum.

A wide variety of internships are available in the metropolitan Fort Lauderdale/Miami area. This eliminates travel expenses that might otherwise be required in order to obtain these experiences.

Students are encouraged to relocate for their residency (fourth year), which is typically a paid employment experience. Fourth-year classes may be taught via distance technology (currently, interactive video classroom). NSU absorbs the cost of the distance technology.

Financial Aid: Financial assistance is available. Contact the Nova Southeastern University's Office of Financial Aid at (954) 262-3380 for more information. There are additional program-supported financial aid opportunities to include graduate assistantships, research assistantships, and class assistantships.

NSU Doctoral Faculty

Joseph Barimo, M.B.A.
Business Management and Leadership

Chuck Berlin, Ph.D.
Electrophysiology I

Larry Bloom, Ph.D.
Counseling

Eugene Cooper, Ed.D.
Professional Research Project Adviser

Lucas Doyle, Au.D. Candidate
Varied Audiology Courses

David Fabry, Ph.D.
Professional Research Project Advisor

Barry A. Freeman, Ph.D.
Business Management and Leadership

Erica Friedland, Au.D. Candidate
Varied Audiology Courses

Kathleen Geier, Au.D.
Varied Audiology Courses

Joseph Gonzalez, Ph.D.
Technology and Instrumentation

Herb Greenberg, Ph.D.
Electrophysiology II

Teri Hamill, Ph.D.
Varied Audiology Courses

Ronald Haun, Ph.D.
Genetics

Sylvia Jones, Ph.D.
Advanced Seminar in Pediatric
Development

Angela Loavenbruck, Ed.D.
Advanced Seminar in Amplification

Charles Lonagan, Ph.D.
Gerontology

Maurice Miller, Ph.D.
Professional Research Project Adviser

Gus Mueller, Ph.D.
Advanced Seminar in Amplification

Jerry Northern, Ph.D.
Pediatric Audiology

Barbara Packer, Ed.D.
Varied Audiology Courses

Jose Rey, Pharm.D.
Pharmacology

Alan Ribbler, Ph.D.
Neuroscience/Neuropsychology

Elizabeth Roberts, Ph.D.
Professional Research Project Adviser

Pat Saccone, Au.D. Candidate
Varied Audiology Courses

Brad Stach, Ph.D.
Differential Diagnosis in Audiology

Shelley Victor, Ed.D.
Supervision

Carole Zangari, Ph.D.
Professional Research Project Adviser

David Zapala, Ph.D.
Pediatric Audiology

Postbaccalaureate Au.D. Curriculum

Prerequisite Courses

The following prerequisite courses (27 credits) are required for students admitted to the postbaccalaureate Au.D. program:

Math	3 credits
Science (NSU recommends human anatomy and physiology)	3 credits
Psychology or Sociology	6 credits
Normal Language Development	3 credits
Speech Disorders	3 credits
Language Disorders	3 credits
Neuroanatomy	3 credits
Speech and Hearing Science	3 credits

NSU recommends the following preparatory course to round out undergraduate education:

Chemistry (3 credits)

*Each of the above prerequisite courses may be taken at either Nova Southeastern University or at another accredited undergraduate college.

Postbaccalaureate Au.D. Course Requirements		
SLP 6070 Research Methods	Exposure to critical analysis of the field's literature with respect to research design and statistical application.	3 credits
SLP 6075 Seminar in Professional Issues	History, current professional issues, and trends in the field; management and operation of clinics in a variety of settings; ethical and legislative concerns.	2 credits
AUD 6302 Acoustics and Instrumentation	Detailed study of acoustics to include properties of sound and sound analysis techniques. Use of various sound measurement and analysis systems is reviewed. Audiometric calibration is discussed and demonstrated. Hearing aid electroacoustic measurement and calibration will be covered.	2 credits
AUD 6303 Psychoacoustics and Speech Perception	Study of the range of normal human auditory perceptual abilities: intensity, frequency, and temporal resolution. Study of the changes in perception that occur as a function of sensorineural hearing loss, and their implications in the design of amplification systems.	2 credits
AUD 6304 Anatomy and Physiology of the Auditory and Vestibular Mechanisms	Detailed study of the anatomy and physiology of the ear. Topics include resonance and transformer action of the outer/middle ear, detailed study of the tympanic membrane and ossicles. The structure of the cochlea is examined in depth, and the physiology of the cochlea, concentrating on the active mechanism of the ear, is covered. Brain stem auditory structures and functions are discussed. The vestibular peripheral system and the vestibular CNS pathways are described.	3 credits
AUD 6401 Audiological Diagnostic Procedures Across the Lifespan	Otoscopy, pure-tone air, bone, speech audiometric testing techniques, and pure-tone screening procedures are discussed. Masking procedures are detailed. Case history procedures are reviewed. Pediatric behavioral testing is studied; modifications in test procedures dependent on age are presented.	3 credits
AUD 6402 Site of Lesion Assessment	Immittance screening and testing, including multifrequency and multicomponent immittance, advanced reflex testing procedures. Central auditory processing testing. Case studies utilized.	3 credits

AUD 6403 Introduction to Electrophysiology	Basic procedures for acquiring and interpreting electrophysiologic tests are discussed. The student will have knowledge of the use of auditory brain stem evoked response testing for threshold and neuro-otologic diagnosis. Transient and click evoked distortion product otoacoustic emissions testing will be described. Basic electronystagmography procedures and interpretation covered.	2 credits
AUD 6404 Auditory and Vestibular Pathologies	Study of the pathologies affecting the auditory system. Pathologies affecting the conductive mechanism and methods of their differential diagnosis will be discussed. Causes of sensorineural hearing loss described, and their etiologies are discussed. The role of various central auditory nervous system tests in detecting retrocochlear pathologies will be discussed, including imaging techniques. Case studies will be reviewed.	3 credits
AUD 6405 Overview of Amplification Systems	Overview of hearing aid components and hearing aid types is presented. Electroacoustic analysis and foundations and use of prescription formulae for fitting linear amplification are discussed. Real-ear measurement terminology and techniques are presented.	3 credits
AUD 6310 Aural Rehabilitation	Remediation of communication problems resulting from hearing impairment; use of amplification and assistive devices.	3 credits
AUD 6501 Sign Language	Introduction to manual communication systems, with emphasis on learning interviewing techniques using medical/audiologic terminology.	2 credits
AUD 6502 Hearing Conservation	A study of the impact of noise from a physiological and psychological perspective. There will be a discussion of various service delivery models ranging from industry, schools, military, and other sites. The basic elements of an effective hearing conservation program will be discussed as well as a review of the relevant legislation mandating such programs.	3 credits
AUD 6503 Topics in Audiology	Current topics in the field of audiology are examined. Topics for consideration will be vestibular rehabilitation, educational audiology, interoperative monitoring, electroneuronography, cochlear implants, and/or multicultural issues.	3 credits
CSD 7000 Technology and Instrumentation in Communication Sciences	This course presents advanced applications in the use of computer hardware and software in communication sciences and disorders. Doctoral candidates will receive hands-on experience in the use, application, and configuration of software for distance learning technologies, management of clients, and business issues. Doctoral candidates will explore the impact of emerging technology and instrumentation in their professional arenas.	3 credits
CSD 7030 Gerontology	This study area presents an overview of gerontology with emphasis given to differentiation between normal aging process and pathological changes. Multicultural perspectives of aging will be addressed. Doctoral candidates will develop effective planning and management services for the "older" client with multiple problems. The communication disorders of these clients will be viewed in the context of home health care, community agency resources, recreation, attrition, and socioeconomic and psychosocial consequences of aging and illness.	2 credits
CSD 7040* Supervision	The identification and analysis of the processes of supervision along the continuum of supervision from support personnel to peer will be examined. Topics will include planning and executing the supervisory conference, data collection procedures, and evaluation. The research in the field of supervision will be examined with an emphasis on practical application. The impact of cultural diversity on supervision will be addressed.	3 credits
CSD 7075* Counseling	Doctoral candidates will explore theories of counseling with an emphasis on management of individuals with communication disorders and their families. Doctoral candidates will experiment with different approaches to interacting with clients and their families individually and in groups. Cultural impact on the counseling process will be addressed. Doctoral candidates will be exposed to role-play situations for use with clients demonstrating a variety of audiologic and/or speech-language problems.	3 credits
<p>* Note: Postbaccalaureate students may opt to take <u>either</u> CSD 7040 Supervision <u>or</u> CSD 7075 Counseling.</p>		

CSD 7050 Research and Evaluation	Doctoral candidates will be exposed to a two-part clinical research model whereby doctoral candidates are prepared as: a) critical consumers of research and b) clinicians utilizing research methodology as an integral part of their diagnostic and treatment procedures. The ability to comprehend, analyze, and critically evaluate professional literature will be emphasized, as well as designing clinically based research to corroborate and monitor clinical hypotheses and treatment efficacy. Principles of research will be covered, with an emphasis on research design, data collection, and analysis and evaluation. A critical evaluation of research in communication sciences and disorders will be included.	3 credits
CSD 7060 Genetics	Doctoral candidates will be exposed to a general overview of genetics and will investigate the spectrum of genetic syndromes common to clients with communication disorders. Doctoral candidates will study the embryologic development with an emphasis on normal and abnormal or interrupted development at various stages and outcomes.	2 credits
CSD 7070 Pharmacology	Doctoral candidates will learn the general principles of drug action, particularly as related to communicative function. The classes of drugs used in clinical practice will be examined with emphasis on activity, mode of action, side effects, toxicity, and drug interactions. Case studies in the fields of speech-language pathology and audiology will be presented.	2 credits
CSD 7080 Business Management and Leadership	Doctoral candidates will learn basic management principles as they relate to the conduct of speech-language or audiology practice in a variety of settings. Legal and ethical issues in practice management will be covered. Doctoral candidates preparing for personal and professional development assess the skills and behaviors of the leader or change agent in terms of their own potential for growth and future leadership positions.	3 credits
AUD 7100 Advanced Seminar in Amplification	This course reviews hearing aid design and function. It provides information on the design and operation of programmable and digital hearing aids, including forms of automatic signal processing. The use of computer-assisted prescriptive methods for hearing aid selection, fitting, and verification is discussed. Probe-microphone measurement techniques are reviewed. Analysis of communication function assessment and outcome verification are included. Counseling techniques are discussed.	4 credits
AUD 7120 Electrophysiology I	A study of selected neurophysiologic and other subjective assessment techniques of the auditory system, including ECochG, auditory brain stem response, and otoacoustic emission. Interpretation of test responses will be discussed in relation to underlying anatomy and physiology.	3 credits
AUD 7130 Advanced Seminar in Pediatric Audiology	Review of normal and abnormal auditory development in children. Principles of assessment of auditory function in neonates, infants, and young children will be discussed. Practical applications for the difficult-to-test child will be explored. Various pediatric cases will be presented in grand-rounds format.	2 credits
AUD 7140 Professional Research Project: Proposal	Doctoral candidates will select, prepare, and design a clinical research or professional research project. Candidates will identify a problem existing in their workplace and propose a solution to the problem.	3 credits
AUD 7141 Professional Research Project: Report	Doctoral candidates will implement the solution strategy proposed during the proposal stage of the professional research project. Candidates will then evaluate the effectiveness of the solution.	3 credits
AUD 7160 Electrophysiology II	A continuation of the studies of selected neurophysiologic techniques utilized for assessment of the auditory and vestibular system including middle latency response, late evoked response, electronystagmography, and posturography. Interpretation of test results will be discussed in relation to underlying anatomy and physiology.	3 credits
AUD 7180 Differential Diagnosis in Audiology	This course will address special problems in auditory assessment with emphasis on site-of-lesion tests and procedures that require additional information beyond the standard audiometric evaluation. Practical exercises that integrate the anecdotal, subjective, and objective information into a meaningful audiometric interpretation with appropriate intervention strategies will be conducted.	3 credits

AUD 6601 Clinic: Multi-site Observation	Students must observe at least 25 clock hours of evaluation and/or management. Observation hours must precede clinical assignments and be completed under direct supervision of the faculty in the Clinics for Audiology and Speech-Language Pathology. Weekly class meetings are required.	1 credit
AUD 6602 Clinic I: On-campus, Basic Evaluations	Participation in campus-based, basic audiologic evaluations of clients and other clinical activities as assigned. Weekly class meetings are required.	1 credit
AUD 6603 Clinic II: On-campus, Assessment and Amplification	Participation in campus-based general audiologic evaluations, assessment for amplification candidacy, hearing aid evaluations and fittings, and other clinical activities as assigned.	1 credit
AUD 6604 Clinic III: Combined on- and off-campus placements	Participation in on- and off-campus for patients requiring audiologic assessment and/or management. Weekly class meetings are required.	1 credit
AUD 6605 Clinic IV: Combined on- and off-campus placements	Participation in on- and off-campus clinics for patients requiring audiologic assessment and/or management. Emphasis on more advanced clinical skills. Weekly class meetings are required.	1 credit
AUD 6606 Clinic V: Primarily off-campus	Participation in primarily off-campus clinics for patients requiring audiologic assessment and/or management. Weekly class meetings are required.	1 credit
AUD 6607 Clinic: Internship I	Off-campus placement in hospital, agency, or private practice setting(s). Students must meet the schedule required by the facility to which the student is assigned. Class meetings are scheduled periodically.	2 credits
AUD 6608 Clinic: Internship II	Off-campus placement in a variety of settings. Students must meet the schedule required by the facility to which the student is assigned. Class meetings are scheduled periodically.	2 credits
AUD 6609 Clinic: Internship III	Off-campus placements continue. The student continues to gain experience in a variety of settings. Students must meet the schedule required by the facility to which the student is assigned. Class meetings are scheduled periodically.	2 credits
AUD 6610 Residency I	Full-time continuous placement in an outside agency providing full audiologic services.	1 credit
AUD 6611 Residency II	Full-time continuous placement in an outside agency providing full audiologic services.	1 credit
AUD 6612 Residency III	Full-time continuous placement in an outside agency providing full audiologic services.	1 credit
Clinical Hours: 15 credits		
Academic Hours: 76 credits		
Total Hours: 91 credits		

SAMPLE PLAN OF STUDY

The following is a sample plan of study. Plans of study are customized for each individual student; therefore, the student's plan of study may or may not be similar.

SEMESTER ONE	(FIRST YEAR BEGINS)	CREDIT HOURS	PROFESSOR (TENTATIVE)
SLP 6070	Research Methods	3	Varies: Hamill, Victor, Gonzalez, or Roberts
AUD 6304	Anatomy and Physiology of the Auditory and Vestibular Mechanisms	3	Teri Hamill
AUD 6401	Audiologic Diagnostic Procedures Across the Lifespan	3	Kathleen Geier
AUD 6601	Clinic I – Multisite observation	1	Barbara Packer
		Total – 10	
TWO			
AUD 6302	Acoustics and Instrumentation	2	Teri Hamill
AUD 6402	Site of Lesion Assessment	3	Pat Saccone
AUD 6405	Overview of Amplification Systems	3	Kathleen Geier
AUD 6602	Clinic II – On-Campus, Basic Evaluations	1	
		Total – 9	
THREE			
AUD 6303	Psychoacoustics and Speech Perception	2	Teri Hamill
AUD 6403	Introduction to Electrophysiology	2	Teri Hamill and Pat Saccone
AUD 6404	Auditory and Vestibular Pathologies	3	Erica Friedland
AUD 6603	Clinic III – On-Campus, Assessment, and Amplification	1	
		Total – 8	
FOUR	(SECOND YEAR BEGINS)		
AUD 6502	Hearing Conservation	3	Kathleen Geier
AUD 6310	Aural Rehabilitation	3	Barbara Packer
AUD 6604	Clinic IV – Combined on- and off-campus placements	1	Varies
		Total – 7	
FIVE			
CSD 7000	Technology and Instrumentation in Communication Sciences and Disorders	3	Joseph Gonzalez
CSD 7060	Genetics	2	Ronald Hahn
AUD 7120	Electrophysiology I	3	Charles Berlin
AUD 6605	Clinic V – Primarily off-campus	1	Varies
		Total – 9	
SIX			
AUD 6503	Topics in Audiology	3	Kathleen Geier
AUD 6501	Sign Language	2	Kathleen Geier
AUD 7160	Electrophysiology II	3	Herb Greenberg
AUD 6606	Clinic VI – Primarily off-campus	1	Varies
		Total – 9	

SEVEN	(THIRD YEAR BEGINS)		
SLP 6075	Seminar in Professional Issues	2	Barbara Packer
CSD 7030	Gerontology	2	Charles Lonagan
AUD 7100	Advanced Seminar in Hearing Aid Design, Selection and Fitting	4	Gus Mueller and Angela Loavenbruck
AUD 6607	Clinic – Internship I	2	Varies
		Total – 10	
EIGHT			
CSD 7050	Research and Evaluation	3	Teri Hamill
CSD 7210	Advanced Seminar in Pediatric Audiology	2	Jerry Northern
AUD 6608	Clinic – Internship II	2	Varies
		Total – 7	
NINE			
AUD 7140	Professional Research Project: Proposal	3	Adviser assigned
AUD 7180	Differential Diagnostics in Audiology	3	Brad Stach
AUD 6609	Clinic – Internship III	2	Varies
		Total – 8	
TEN	(FOURTH YEAR BEGINS)		
CSD 7040 OR CSD 7075	Supervision OR Counseling	3	Shelley Victor OR Larry Bloom
AUD 6610	Residency I	1	Varies
		Total – 4	
ELEVEN			
CSD 7070	Pharmacology	2	Jose Rey
AUD 6611	Residency II	1	Varies
		Total – 3	
TWELVE			
CSD 7080	Business Management and Leadership	3	Barry Freeman
AUD 7141	Professional Research Project: Report	3	Advisor assigned
	Residency III	1	
		Total – 7	
	Program Total	91	

Clinic Affiliations

American Institute of Balance
Seminole, FL
(200 miles)

Association in Neurology
Plantation, FL
(5 Miles)

Audiology Associates of South Florida
Margate, FL
(12 miles)

**Broward County Public Schools
Dept. of Exceptional Student Ed.**
Pompano Beach, FL
(5 miles)

**Broward County Public Schools
Health Education Services**
Fort Lauderdale, FL
(5 miles)

Bethesda Memorial Hospital
Boynton Beach, FL
(35 miles from Davie campus)

**Debbie School/Tactual Speech
Program**
Miami, FL
Dr. W. Fingerer
(25 miles)

Florida Medical Center
Lauderdale Lakes, FL
(18 miles)

Fort Lauderdale Hearing Center
Fort Lauderdale, FL
(8 miles)

Hearing Center of Broward
Lighthouse Point, FL
(25 miles)

Herbert Greenberg, Ph.D.
West Palm Beach, FL
(Dr. Houle and Dr. Liu)
(35 miles)

**Mailman Center for Child
Development**
Miami, FL
(25 miles)

Margate Hearing Center
Margate, FL
(12 miles)

Medical Center Hearing Care
Naples, FL
(90 miles)

Miami Children's Hospital
Miami, FL
(30 miles)

**Miami-Dade Public Schools
FDLRS**
Miami, FL
(26 miles)

**Nova Southeastern University Clinics
for Audiology and Speech-Language
Pathology**
Fort Lauderdale, FL
(on campus)

**Palm Beach Schools Okeeheelee
Audiology Center**
West Palm Beach, FL
(40 miles)

**Pine Crest Rehabilitation Hospital
Pine Crest Hearing Institute**
Delray, FL
(35 miles from Davie campus)

St. Mary's Hospital
Child Development Center
West Palm Beach, FL
(45 miles from Davie campus)

South Miami Hospital
Miami, FL
(30 miles)

United Hearing and Deaf Services
Oakland Park, FL
(5 miles)

VA Medical Center – Miami
Miami, FL
(23 miles)

VA Medical Center – Oakland Park
Fort Lauderdale, FL
(5 miles)

VA Medical Center – West Palm Beach
West Palm Beach, FL
(60 miles)

West Medical Hearing Center
Plantation, FL
(5 miles)



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Programs in Communication Sciences and Disorders
1750 NE 167th Street
North Miami Beach, Florida 33162-3017