AUDILOGY AU.D.

Degree: Applied Doctorate in Audiology (Au.D.)
Program Director: Jennifer Smart
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The Applied Doctorate in Audiology program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association. The Au.D. curriculum consists of a minimum of 99 units including the following requirements: a minimum of 35 units of clinical practicum, which includes a one-year clinical externship and a minimum of 7 units of doctoral thesis preparation.

The program of study is intended to train clinicians who will demonstrate competency

- in oral, written and other forms of communication
- in scientific and research foundations of practice
- in prevention and identification of communication disorders
- in evaluation and treatment of disorders of auditory, balance, communication and related systems
- by passing department assessments of clinical and academic competency

The Au.D. degree will prepare the individual for national certification and state licensure. All clinical requirements of the American Speech-Language-Hearing Association (ASHA) and the Department of Audiology, Speech-Language Pathology and Deaf Studies must be completed before the Au.D. degree is awarded.

Students must abide by professional and ethical standards established by the department and by ASHA. The audiology program requires that students successfully complete on- and off-campus clinical rotations and an off-campus clinical externship. The on-campus clinic and many of the off-campus placements require a criminal background investigation. A criminal record may prohibit a student from participating in clinical rotations and completing the degree program. Furthermore, a criminal record may prohibit an individual from obtaining the required certification and/or licensure required for professional practice. In addition, students must submit documentation of required immunizations.

Students in graduate ASLD programs will be permitted to repeat a maximum of two courses for which grades of "C" or lower were earned for any required or elective courses.

Admission Requirements

- A bachelor's degree from a regionally accredited college or university** with a minimum GPA of 3.00. All GPA calculations for admission are based upon their entire undergraduate career and/or post-baccalaureate study.
- For international students, a TOEFL score of 600 or above is required (100 iBT). A U.S. degree does not waive the requirement of TOEFL for this program.
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- Interview with audiology faculty (face-to-face interview preferred; online or telephone interview may be arranged).
- GRE scores of 290 (verbal and quantitative) on new GRE test
- Successful completion of the following prerequisite courses:
  - A life science course (e.g., biology) (3)
  - Behavioral Statistics (3)
  - A social science course (e.g., psychology, sociology) (3)
  - Phonetics (3) (NOTE: This course may be taken during Au.D. program)
  - Basic Mathematics (3)
  - A course in physical science (e.g., chemistry, physics) (3)
  - Language Development (3) (NOTE: This course may be taken during Au.D. program)

Submit the online application (https://www.towson.edu/academics/graduate/admissions/apply/) along with the following:

- A one-to two-page essay. Students may choose one topic from three choices provided in the application materials.
- GRE scores
- Three letters of recommendation (include admissions rating sheet); recommendations from professors are preferred.

Non-immigrant international students: See additional admission information in Graduate Admissions (https://www.towson.edu/academics/graduate/admissions/apply/international.html)

**See Exceptions to Policy in Graduate Admissions (https://www.towson.edu/academics/graduate/admissions/apply/policies.html)

Degree Requirements

All course work, examinations, writing and clinic practicum clock-hour requirements of the Department of Audiology, Speech-Language Pathology and Deaf Studies must be completed, and students must demonstrate mastery in four areas of audiology: foundations of practice, prevention and identification, evaluation, and treatment, as specified by the American Speech-Language-Hearing Association (ASHA) before the Au.D. degree is awarded.

Research Project

Each student will complete an Audiology Doctoral Thesis. This project could be an extensive case study or a research project. Projects will be presented to the ASLD faculty in written and oral form for their evaluation.

Required Courses

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<td>ACSD 601</td>
<td>PROFESSIONALISM AND ETHICS</td>
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<td>NEUROANATOMY AND PHYSIOLOGY OF THE CENTRAL AUDITORY AND VESTIBULAR SYSTEMS</td>
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<td>ACSD 606</td>
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<td>ACSD 607</td>
<td>GENETICS IN AUDIOLOGY</td>
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<td>ACSD 655</td>
<td>HEARING AIDS I: SELECTION, VERIFICATION AND VALIDATION OF AMPLIFICATION</td>
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<td>ACSD 705</td>
<td>COUNSELING IN AUDIOLOGY II</td>
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ACSD 706  AUDIOLOGY PRACTICE MANAGEMENT  2
ACSD 714  RESEARCH METHODS IN AUDIOLOGY  2
ACSD 721  AUDITORY DIAGNOSTICS II  3
ACSD 723  MEDICAL AUDIOLOGY  2
ACSD 731  CALIBRATION AND INSTRUMENTATION  1
ACSD 743  ELECTROPHYSIOLOGIC EVALUATION OF THE PERIPHERAL AUDITORY SYSTEM  3
ACSD 744  ELECTROPHYSIOLOGIC EVALUATION OF THE CENTRAL AUDITORY NERVOUS SYSTEM  3
ACSD 745  AUDIOLOGY CLINIC ON CAMPUS II  3
ACSD 746  AUDIOLOGY CLINIC ON CAMPUS III  3
ACSD 747  AUDIOLOGY CLINIC OFF CAMPUS I  2
ACSD 748  AUDIOLOGY CLINIC OFF CAMPUS II  2
ACSD 751  HEARING CONSERVATION  1
ACSD 753  PEDIATRICS AND EDUCATIONAL AUDIOLOGY  3
ACSD 755  HEARING AIDS II: HEARING AID MODIFICATION  3
ACSD 796  DOCTORAL THESIS PROPOSAL DEVELOPMENT I  2
ACSD 797  DOCTORAL THESIS PROPOSAL DEVELOPMENT II  2
ACSD 843  VESTIBULAR ASSESSMENT AND REHABILITATION  3
ACSD 844  TINNITUS  1
ACSD 845  VESTIBULAR DIAGNOSTIC AND TREATMENT LAB  1
ACSD 847  AUDIOLOGY CLINIC OFF CAMPUS III  2
ACSD 848  AUDIOLOGY CLINIC OFF CAMPUS IV  2
ACSD 853  COCHLEAR IMPLANT  3
ACSD 855  HEARING AIDS III: SEMINAR IN ADVANCED AMPLIFICATION  3
ACSD 898  AUDIOLOGY DOCTORAL THESIS  3
ACSD 998  AUDIOLOGY CLINICAL EXTERNALSHIP (48 weeks)  18

Total Units 99

1. Demonstrate competency in oral, written, and other forms of communication.
2. Demonstrate competency in scientific and research foundations of practice.

Courses

ACSD 600 SPECIAL TOPICS IN AUDIOLOGY (1-3)
Current topics in audiology. May be repeated for credit provided a different topic is covered. The content of the course will depend upon mutual faculty and student interest. Prerequisite: Consent of department.

ACSD 601 PROFESSIONALISM AND ETHICS (1)
Professional issues in audiology including ethics and multicultural aspects of patient care. Prerequisites: Graduate standing and/or consent of department.

ACSD 603 NEUROANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VESTIBULAR SYSTEMS (3)
Electrophysiologic test procedures used in assessing the peripheral auditory system. Prerequisite: BIOL 110 and/or consent of the department.

ACSD 604 NEUROANATOMY AND PHYSIOLOGY OF THE CENTRAL AUDITORY AND VESTIBULAR SYSTEMS (2)
Neurological structure and function of the central auditory nervous system and the central vestibular pathways and vestibular-ocular reflex. Prerequisites: ACSD 603 and/or consent of instructor.

ACSD 605 COUNSELING IN AUDIOLOGY I (1)
Designed to help students to understand the theoretical framework for counseling in audiology and to develop and improve their counseling skills with patients with hearing loss and their families. Prerequisites: ACSD 690 and/or consent of department.

ACSD 606 PHARMACOLOGY IN AUDIOLOGY (1)
Provides an introduction to clinical pharmacology and address specific issues related to pharmacotherapeutics critical in the management of patients in an audiological practice. Prerequisites: ACSD 621, ACSD 721 and/or consent of department. Open only to audiology doctoral students.

ACSD 607 GENETICS IN AUDIOLOGY (1)
Covers the basic principles of human genetics and basic principles of heredity. The focus of this course will be on how genetic causes of hearing loss impact the function of the auditory system and the impact of these disorders on the patient and his/her family. Restricted to Doctor of Audiology students. Prerequisites: ACSD 603 and/or consent of department.

ACSD 611 ACOUSTICS AND PSYCHOACOUSTICS (2)
Study of the physical and psychological properties of sound.

ACSD 621 AUDITORY DIAGNOSTICS I (3)
Administration and interpretation of audiometric procedures for differential diagnosis of auditory pathology. Prerequisites: SPPA 321 and/or consent of department.

ACSD 622 AUDITORY DIAGNOSTICS I LABORATORY (1)
Laboratory exercises will be conducted to demonstrate the administration and interpretation of audiometric procedures for differential diagnosis of auditory pathology. May be repeated for a maximum of 6 units. Corequisite: Concurrent enrollment in ACSD 621 and/of department consent. Lab/class fee will be assessed.

ACSD 636 APPLIED STATISTICS (2)
Behavioral statistics will be introduced and applied to data sets using commercially available statistical analysis software. Basic parametric and non-parametric tests will be reviewed. Prerequisites: Graduate standing and/or consent of department.

ACSD 645 COMMUNICATION AND AGING (3)
The impact of the aging process on communication, and roles of health care professionals in the rehabilitation process of older adults with communication difficulties. Prerequisites: Graduate standing and/or consent of the department.

ACSD 655 HEARING AIDS I: SELECTION, VERIFICATION AND VALIDATION OF AMPLIFICATION (2)
Theoretical foundation and clinical application of amplification process in selection and fitting of hearing aids. Prerequisite: Graduate standing and/or consent of department.

ACSD 690 AUDIOLOGY CLINIC ON CAMPUS I (3)
On-campus supervised audiology clinical experience in the Towson University Speech-Language-Hearing Clinic with children and adults who have communication impairments. Prerequisites: Completed communication screening, ACSD 601, and/or consent of department.
ACSD 705 COUNSELING IN AUDIOLOGY II (1)
Students and professor will discuss audiology counseling using case studies and student experiences with clinical rotations. Prerequisites: ACSD 605 and/or consent of department.

ACSD 706 AUDIOLOGY PRACTICE MANAGEMENT (2)
Audiology practice management issues including financial management, personnel issues, insurance, licensing, certification, computer applications, and ethics. Prerequisites: Au.D. student and/or consent of department.

ACSD 714 RESEARCH METHODS IN AUDIOLOGY (2)
Application of the scientific method to audiological research: evaluation of research design; statistical analysis. Prerequisites: Undergraduate course in behavioral statistics.

ACSD 721 AUDITORY DIAGNOSTICS II (3)
Differential diagnosis of auditory pathology based on audiological test battery. The development of appropriate recommendations and patient management. Prerequisite: ACSD 621 and/or consent of department.

ACSD 723 MEDICAL AUDIOLOGY (2)
Provides detailed information on pathologies of the peripheral and central auditory and vestibular systems. Common medical terminology will also be reviewed. Restricted to Doctor of Audiology students. Prerequisites: ACSD 621 and/or consent of department.

ACSD 731 CALIBRATION AND INSTRUMENTATION (1)
Electroacoustic calibration of audiology equipment using appropriate ANSI standards for the diagnostic and portable audiometers, immittance bridges and sound field systems. Prerequisite: ACSD 611, and/or consent of department.

ACSD 743 ELECTROPHYSIOLOGIC EVALUATION OF THE PERIPHERAL AUDITORY SYSTEM (3)
Electrophysiologic test procedures used in assessing the peripheral auditory system. Prerequisites: ACSD 603, and/or consent of instructor. Lab/Class fee will be assessed.

ACSD 744 ELECTROPHYSIOLOGIC EVALUATION OF THE CENTRAL AUDITORY NERVOUS SYSTEM (3)
Electrophysiologic test procedures used in assessing the central auditory nervous system. Prerequisites: ACSD 743 and/or consent of department. Lab/Class fee will be assessed.

ACSD 745 AUDIOLOGY CLINIC ON CAMPUS II (3)
Second on-campus supervised audiology clinical experience in the Towson University Speech-Language-Hearing Clinic. Prerequisites: ACSD 690 and/or consent of department.

ACSD 746 AUDIOLOGY CLINIC ON CAMPUS III (3)
Third on-campus supervised audiology clinical experience in the Towson University Speech-Language-Hearing Clinic with children and adults who have communication impairments. Prerequisites: ACSD 745 and/or consent of department.

ACSD 747 AUDIOLOGY CLINIC OFF CAMPUS I (2)
Audiology off-campus practicum clinical sequence I. Prerequisites: ACSD 746, a passing score on the Audiology Gateway Assessment (AGA): oral/practical and written portions.

ACSD 748 AUDIOLOGY CLINIC OFF CAMPUS II (2)
Audiology off-campus practicum clinical sequence II. Prerequisites: ACSD 747 and/or consent of department.

ACSD 751 HEARING CONSERVATION (1)
Legislative issues, instrumentation, and sound measurement; the audiologist's role in implementing hearing conservation programs. Prerequisites: ACSD 611 and/or consent of department.

ACSD 753 PEDIATRICS AND EDUCATIONAL AUDIOLOGY (3)
Principles and techniques for evaluation of auditory status and selection of hearing aids in children. Prerequisites: ACSD 721 and/or consent of instructor.

ACSD 755 HEARING AIDS II: HEARING AID MODIFICATION (3)
Amplification system and modification methodologies used to enhance hearing aid performance. Analysis of special purpose circuits, digital and analog Lab/Class fee will be assessed.

ACSD 790 AUDIOLOGY CLINIC ON CAMPUS CONTINUUM (3)
Audiology on-campus practicum for audiology doctoral students continuing in on-campus experiences. Open to audiology doctoral students only. May be repeated for a maximum of 6 units. A special permit is required for enrollment. Prerequisites: ACSD 746 and/or consent of department.

ACSD 796 DOCTORAL THESIS PROPOSAL DEVELOPMENT I (2)
A critical analysis of literature for the doctoral thesis. Graded S/U. Prerequisite: ACSD 714 and/or consent of department.

ACSD 797 DOCTORAL THESIS PROPOSAL DEVELOPMENT II (2)
Completing and successfully defending the audiology doctoral thesis proposal with faculty guidance. Graded S/U. Prerequisite: ACSD 796 and/or consent of department.

ACSD 843 VESTIBULAR ASSESSMENT AND REHABILITATION (3)
Assessment and treatment of balance and related auditory disorders. Prerequisites: ACSD 603, ACSD 604 and/or consent of instructor.

ACSD 844 TINNITUS (1)
Assessment and management of tinnitus. Prerequisites: ACSD 603, ACSD 604, and/or consent of instructor.

ACSD 845 VESTIBULAR DIAGNOSTIC AND TREATMENT LAB (1)
Vestibular diagnosis and treatment techniques learned in ACSD 843 will be reviewed and practiced until the student can perform the skills independently. Prerequisite: ACSD 843.

ACSD 847 AUDIOLOGY CLINIC OFF CAMPUS III (2)
Audiology off-campus practicum clinical sequence III. Prerequisites: ACSD 748, and/or consent of department.

ACSD 848 AUDIOLOGY CLINIC OFF CAMPUS IV (2)
Audiology clinic off-campus IV. Prerequisites: ACSD 847 and/or consent of instructor.

ACSD 849 AUDIOLOGY CLINIC OFF CAMPUS CONTINUUM (2)
Audiology off-campus practicum. Follows Audiology Clinic off-campus IV if needed. This course is only open to audiology doctoral students. May be repeated for a maximum of 6 units. Special permit is required. Prerequisite: ACSD 848 and/or consent of the department.

ACSD 853 COCHLEAR IMPLANT (3)
Audiology off-campus practicum clinical sequence III. Prerequisites: ACSD 748 and/or consent of instructor.

ACSD 855 HEARING AIDS III: SEMINAR IN ADVANCED AMPLIFICATION (3)
Advanced signal processing schemes. Non-traditional amplification options and provision of real-world hearing aid fitting experience. Prerequisite: ACSD 655 and/or consent of department.

ACSD 898 AUDIOLOGY DOCTORAL THESIS (3)
Continued progress toward the completion of the Audiology Doctoral Thesis. Will be repeated for a maximum of 6 units. Special permit required. Prerequisites: ACSD 714, ACSD 796, ACSD 797, ACSD 896, and/or consent of the department.
ACSD 899 THESIS CONTINUUM (1)
Completion of the Audiology Doctoral thesis for students who have already enrolled in 6 units of doctoral thesis. Prerequisite: Six units of ACSD 898.

ACSD 998 AUDIOLOGY CLINICAL EXTERNALSHIP (3-9)
Capstone audiological clinical experience. Identification, assessment and treatment of auditory disorders. Prerequisite: Consent of department.