

# AUDIOLOGY (ACSD)

## 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. Prerequisite: graduate standing and/or consent of department.

### ACSD 603 ANATOMY AND PHYSIOLOGY OF THE PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS (3)

Structure and function of the peripheral auditory system and the vestibular system. Prerequisite: 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/or 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. Prerequisite: 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 calibration of 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: ASCD 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: ASCD 745 and/or consent of department.

**ACSD 747 AUDIOLOGY CLINIC OFF CAMPUS I (2)**

Audiology off-campus practicum clinical sequence I. Prerequisites: ASCD 746; a passing score on the Audiology Gateway Assessment (AGA): oral/practical and written portions. Internship/Practicum fee will be assessed.

**ACSD 748 AUDIOLOGY CLINIC OFF CAMPUS II (2)**

Audiology off-campus practicum clinical sequence II. Prerequisites: ASCD 747 and/or consent of department. Internship/Practicum fee will be assessed.

**ACSD 751 HEARING CONSERVATION (1)**

Legislative issues, instrumentation, and sound measurement; the audiologist's role in implementing hearing conservation programs. Prerequisites: ASCD 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: ASCD 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: ASCD 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: ASCD 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: ASCD 796 and/or consent of department.

**ACSD 843 VESTIBULAR ASSESSMENT AND REHABILITATION (3)**

Assessment and treatment of balance and related auditory disorders. Prerequisites: ASCD 603, ASCD 604 and/or consent of instructor.

**ACSD 844 TINNITUS (1)**

Assessment and management of tinnitus. Prerequisites: ASCD 603, ASCD 604, and/or consent of instructor.

**ACSD 845 VESTIBULAR DIAGNOSTIC AND TREATMENT LAB (1)**

Vestibular diagnosis and treatment techniques learned in ASCD 843 will be reviewed and practiced until the student can perform the skills independently. Prerequisite: ASCD 843.

**ACSD 847 AUDIOLOGY CLINIC OFF CAMPUS III (2)**

Audiology off campus practicum clinical sequence III. Prerequisites: ASCD 748, and/or consent of department. Graded S/U. Internship/Practicum fee will be assessed.

**ACSD 848 AUDIOLOGY CLINIC OFF CAMPUS IV (2)**

Audiology clinic off-campus IV. Prerequisites: ASCD 847 and/or consent of instructor. Graded S/U. Internship/Practicum fee will be assessed.

**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: ASCD 848 and/or consent of the department. Graded S/U. Internship/Practicum fee will be assessed.

**ACSD 853 COCHLEAR IMPLANTS (3)**

Audiologic, surgical, educational, communication and rehabilitation aspects of cochlear implantation. Prerequisite: ASCD 755 or consent of department.

**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: ASCD 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. Graded S/U. Prerequisites: ASCD 714, ASCD 796, ASCD 797, ASCD 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. Graded S/U based on making satisfactory progress on thesis. Prerequisite: Six units of ASCD 898.

**ACSD 998 AUDIOLOGY CLINICAL EXTERNSHIP (6)**

Capstone audiological clinical experience. Identification, assessment and treatment of auditory disorders. Prerequisite: consent of department.