

# AUD - AUDIOLOGY

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## **AUD 5400 Introduction to Audiology Cr. 3**

Introduction to physics of sound, anatomy of the hearing mechanism, audiometry, hearing aids, habilitation and rehabilitation of the hearing handicapped. Offered Fall, Winter.

## **AUD 5420 Introduction to Aural Rehabilitation Cr. 3**

Principles and practices of aural rehabilitation including hearing aids. Offered Winter, Spring/Summer.

**Prerequisites:** AUD 5400 with a minimum grade of D-

## **AUD 6000 Electrophysiological Procedures Cr. 4**

Two distinct electrophysiological procedures, auditory evoked potentials and otoacoustic emissions, are presented. Both procedures consist of several sub-tests used to assess the auditory system from the middle ear to the cortex, in normal and disordered ears. Offered for graduate credit only. Offered Spring/Summer.

**Prerequisite:** AUD 5400 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 6030 Instrumentation in Audiology Cr. 3**

Operation, hook-up, scientific notation, systems of measurement, calibration and repair of instruments and software used in clinical audiology. Offered for graduate credit only. Offered Winter.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 6040 Auditory and Vestibular Pathologies Cr. 4**

Disorders of the auditory and vestibular systems. Etiology, pathological characteristics, medical and non-medical therapies.. Offered for graduate credit only. Offered Winter.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 6310 Audiology Clinical Practicum Series Cr. 3**

Progression of knowledge and skill level, from introductory basic clinical skills through advanced clinical protocols for difficult to manage patients. Offered for graduate credit only. Offered Every Term.

**Prerequisite:** AUD 6410 with a minimum grade of C and AUD 6411 with a minimum grade of C and AUD 6412 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Fees:** \$10

**Repeatable for 9 Credits**

## **AUD 6400 Anatomy, Physiology, and Psychophysiology of Audition Cr. 4**

Structure and function of the human auditory system. Psychophysical theories of hearing. Offered for graduate credit only. Offered Fall.

**Restriction(s):** Enrollment is limited to students with a major in Audiology or Speech-Language Pathology; enrollment is limited to Graduate level students; enrollment limited to students in a Doctor of Philosophy, Master of Arts or Master of Science degrees.

## **AUD 6410 Basic Audiologic Evaluation Cr. 3**

Principles and application of pure-tone and speech audiometry, clinical masking, and impedance/immittance testing. Offered for graduate credit only. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 6411 Audiology Clinical Laboratory I Cr. 2**

Development of basic competencies related to clinical procedures and methods for evaluation and treatment of clients; maintenance and use of technology in the university audiology clinic. Student will observe and begin to perform evaluations under faculty supervision. Offered for graduate credit only. Offered Fall.

**Prerequisite:** AUD 6410 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Fees:** \$135

## **AUD 6412 Audiology Clinical Laboratory II Cr. 2**

Continuation of basic competency development related to clinical procedures and methods for evaluation and treatment of clients, maintenance and use of technology in an audiology clinical practice. Students perform evaluations under faculty supervision. Offered for graduate credit only. Offered Winter.

**Prerequisite:** AUD 6040 with a minimum grade of C and AUD 6411 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Fees:** \$135

## **AUD 6413 Audiology Clinical Laboratory III Cr. 2**

Continuation of competency development related to clinical procedures and methods for evaluation and treatment of clients, including advanced testing procedures. Course includes a rotating placement at a local health system. Offered for graduate credit only. Offered Spring/Summer.

**Prerequisites:** AUD 6411 with a minimum grade of B- and AUD 6412 with a minimum grade of B-

**Restriction(s):** Enrollment is limited to students with a major in Audiology; enrollment limited to students in the Doctor of Audiology or Doctor of Audiology programs; enrollment is limited to Graduate level students.

**Fees:** \$135

## **AUD 6430 Principles of Amplification I Cr. 3**

Electroacoustic and clinical aspects of acoustic amplifiers and developmental history of hearing aids. Offered for graduate credit only. Offered Winter.

**Prerequisite:** AUD 6410 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 6530 Principles of Amplification II Cr. 3**

Fundamentals of digital technology, compression, channeling and programming, and applications to various hearing impairment parameters. Offered for graduate credit only. Offered Fall.

**Prerequisite:** AUD 6430 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

## **AUD 7300 Clinical Internship Cr. 3**

Supervised observation, training and practice in audiological procedures. Placements in local audiology settings as assigned by clinical rotation coordinator. Offered Every Term.

**Prerequisite:** AUD 5400 with a minimum grade of C and AUD 6410 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 12 Credits**

## **AUD 7320 Issues, Ethics and Scope of Practice in Audiology Cr. 2**

Code of Ethics and Scope of Practice as published by the professional organizations for audiology. Issues and case studies in ethical practice, malpractice, legal responsibilities, best practice, and counseling. Offered Spring/Summer.

**Prerequisite:** AUD 6000 with a minimum grade of C and AUD 6430 with a minimum grade of C and AUD 8430 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 8 Credits**

## **AUD 7350 Contemporary Issues in Audiology Cr. 1-4**

Integrated seminar; topics announced in Schedule of Classes. Offered Yearly.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 16 Credits**

## **AUD 7420 Hearing Loss Prevention Programs Cr. 3**

Assessment of damage risk criteria for noise-induced hearing loss. Implementation and management of hearing loss prevention programs in industry, schools, and community settings. Offered Winter.

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 7430 Pediatric Audiology Cr. 3**

Introduction to embryology, tests, test procedures, and counseling of parents with hearing-handicapped children. Offered Spring/Summer.

**Prerequisite:** AUD 6410 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 7500 Aural Rehabilitation Cr. 3**

Treatment procedures, measurement and electrophysiological instrumentation, ethical dilemmas. Offered Spring/Summer.

**Prerequisite:** AUD 5420 with a minimum grade of C and AUD 6430 with a minimum grade of C and AUD 6530 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 7520 Counseling in Audiology Cr. 1**

Basic counseling principles and techniques applied to patients and their family members during evaluation and treatment of auditory and balance disorders. Offered Spring/Summer.

**Prerequisite:** AUD 6410 with a minimum grade of C and AUD 6411 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students; enrollment is limited to students in the Department of Communication Sci & Disorders.

**AUD 7540 Genetic Auditory Disorders Cr. 3**

Medical genetics and its application to hearing loss and craniofacial disorders; genetic etiology, diagnosis, therapeutic implications. Ethical, legal and social issues: cloning, gene therapy, and prevention. Offered Winter.

**Restriction(s):** Enrollment is limited to students with a major, minor, or concentration in Audiology, Communication Sci & Disorders, Comm Sci & Disorders Honors or Speech-Language Pathology; enrollment is limited to Graduate level students.

**AUD 7550 Intra-operative Neurophysiologic Monitoring Cr. 2**

Presentation of the techniques used to monitor neurological centers during head/neck surgery. Operating room observations required. Offered Spring/Summer.

**Prerequisite:** AUD 6000 with a minimum grade of C

**Restriction(s):** Enrollment is limited to students with a major, minor, or concentration in Audiology, Communication Disorders&Sci or Communication Disorders&Sci Hon; enrollment is limited to Graduate level students.

**AUD 7630 Neuroscience of Communication Disorders Cr. 3**

Neuroscience, neurophysiology, neuropsychology, neuroimaging, normal aging processes and neurodevelopment in communication sciences and disorders. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Equivalent:** SLP 7630

**AUD 7990 Directed Study Cr. 1-3**

Literature review of an approved topic in audiology under supervision of the graduate faculty. Course may include an experimental investigation. Comprehensive written report is required. Offered Yearly.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 6 Credits**

**AUD 8300 Audiology Fellowship Cr. 8**

Advanced supervised clinical practice in an off-campus setting over the final three semesters of professional study. Offered Every Term.

**Prerequisite:** AUD 7300

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 24 Credits**

**AUD 8350 Research Seminar Cr. 3**

Topics announced in Schedule of Classes. Emphasis on clinical research methods. Offered Yearly.

**Prerequisite:** SLP 7000 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.

**Repeatable for 15 Credits**

**AUD 8430 Equilibrium/Vestibular System Evaluation Cr. 4**

Anatomy, physiology and functional assessment of the vestibular system including instrumentation, procedures, and interpretation of ENG, dynamic posturography, and rotational velocity testing recordings. Hands-on laboratory exercises included. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 8440 Medical Issues: Tinnitus, Central Auditory Processing and Auditory Neuropathy Cr. 3**

Role of the audiologist in the medical setting; advanced clinical skills and knowledge; health care issues and professional interaction in the medical setting. Offered Fall.

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 8450 Advanced Auditory/Vestibular Electrodiagnosis for Balance Assessment and Treatment Cr. 4**

Advanced evaluation of dizzy/balance patients; traditional test battery use with complex balance patients; recently developed electrophysiological techniques and computerized assessments; expansion of clinical and technical skills; walking and gait analysis. Offered Winter.

**Restriction(s):** Enrollment is limited to Graduate level students.

**AUD 8460 Cochlear Implants and Other Auditory Prostheses Cr. 3**

New developments in assisted listening devices and cochlear implant protocols. Offered Winter.

**Prerequisite:** AUD 6530 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Graduate level students.