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<td>AUDI 606</td>
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<td>Acoustics and Speech Acoustics</td>
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<td>AUDI 608</td>
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<td>Auditory Anatomy &amp; Physiology II</td>
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<td>Clinical Clerkship I</td>
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<td>Pathology of the Auditory-Vestibular System</td>
<td>(3)</td>
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Intensive study of the gross aspects of anatomy associated with normal hearing, including the peripheral and central auditory system.

Anatomy and Physiology of Hearing.

The epidemiology of hearing loss. Basic tests of auditory function including pure tone audiometry, speech audiometry and immittance. Focus on both pediatric and adult aspects of testing, with additional topics related to newborn testing. Principles of masking and pathologic correlates of hearing loss discussed.

Introduction to Audiological Techniques and Rehabilitation.

This course provides an introduction to the evaluation, screening and habilitation/rehabilitation of adults and children with hearing impairment. Topics include tests of auditory function, effects of auditory pathology, and amplification.

Acoustics and Speech Acoustics.

Study of sound and its measurement. Relationship of sound to human hearing. Speech acoustics and perception of speech.

Structure and function of the central auditory system with an emphasis on electrophysiologic assessment of cortical and subcortical pathways for clinical purposes.

A two-semester sequence of directed observation in the audiology clinic. Participation in interviewing patients, eliciting a complete history, preparing written technical reports and record keeping. Includes observations during the first semester. 1 credit hour each semester.

### Clinical Techniques in Audiology I

**Part one of a two-semester sequence of directed laboratory exercises. Laboratory exercises will give students hands-on experience with clinical techniques designed to evaluate hearing.**

**02-MAR-2008 A 014762 AUDI 615 GRAD CLINICAL TECHNIQUES II (2) 30 N 2**

Clinical Techniques in Audiology II

Part two of a two-semester sequence of directed laboratory exercises. Laboratory exercises will give students hands-on experience with clinical techniques designed to evaluate hearing.

### Genetics and Hearing Loss

**02-MAR-2005 A 012327 AUDI 616 GRAD GENETICS HEARING LOSS (2) 30 N 2**

Genetics and Hearing Loss

Fundamentals of genetics, modes of inheritance, genetic syndromes affecting the auditory system, ethical implications of genetic testing.

### Instrumentation and Electronics in Audiology

**01-AUG-1998 A 012309 AUDI 618 GRAD INSTRUMENT ELECTRONICS (2) 20 N 2**

Instrumentation and Electronics in Audiology


### Audiologic Counseling & Patient Communication

**01-MAR-2014 A 015975 AUDI 619 GRAD COUNSELING & COMMUNICATION (1) 15 N 1**

Audiologic Counseling & Patient Communication

An exploration of the communication and counseling relationship between student clinician and patient. Students will have an opportunity to develop and refine effective communication and counseling via interaction with standardized patients and personal reflection.

### Clinical Clerkship II

**02-MAR-2009 A 012308 AUDI 620 GRAD CLINICAL CLERKSHIP II (2) 20 Y 6**

A three-semester sequence of introductory level clinical audiology under the aegis of an experienced clinician. Mastery of basic skills such as threshold determination for pure tones and speech stimuli, masking, auditory discrimination measurements, tympanometry, and calibration.

2 credit hours each semester.

### Audiologic Rehabilitation

**02-MAR-2011 A 012906 AUDI 621 GRAD AUDIOLOGIC REHABILITATION (2) 25 N 2**

Audiologic Rehabilitation

Management strategies for hearing loss beyond the hearing aid. Topics include auditory training, speech reading, communication repair strategies, counseling, adjustment to hearing aids, assistive listening devices and cochlear implants.
Electrophysiologic Techniques in Audiology
Principles of biological potentials, signal averaging, amplification and filtering. Clinical utility of the brainstem auditory evoked response with attention to diagnostic techniques and peripheral hearing assessment.

Audiologic Electrophysiology II
Clinical acquisition of middle and late auditory evoked potentials with applications for both diagnostic and rehabilitative ideology. Equal emphasis is placed on acquisition and interpretation of those evoked responses.

Amplification Technology

Audiologic Counseling
Prerequisite: Students in Doctor of Audiology Program. Review of the complex psychosocial and emotional aspects arising within families in the presence of both pediatric and adult hearing loss. Examination of counseling approaches for "non-professional" counseling.

Assessment and Management of Vestibular Disorders
Study of the contribution of the vestibular system to balance and orientation. Technologies and procedures for assessing the dizzy patient. Management of vestibular disorders.

Differential Diagnosis in Audiology
Interpreting the audiologic test battery. Integrating audiologic test results with other diagnostic procedures (i.e., radiologic, neurologic, pathologic, etc). Advanced concepts in test construction, delivery and interpretation. Using test results to plan remediation.

Cochlear Implants and other Implantable Hearing Devices
Comprehensive Study of cochlear implantation, Baha and middle ear implantation including: general anatomy, device components, patient selection and evaluation, speech coding strategies, mapping/programming, troubleshooting, and verification.

Amplification Selection and Fitting
Determining candidacy and benefit from amplification. Selecting appropriate amplification
systems and options including assistive listening devices and implantable technologies. Review of current technologies and their clinical efficacy. Introduction to the business aspects of hearing aid dispensing.

02-MAR-2005 A 012302 AUDI 632 GRAD PROFESSIONAL ISSUES IN AUDI(02) 20 N 2
Professional Issues in Audiology
Overview of the social, political, ethical, and economic climate in hearing health care delivery. Interprofessional relationships and responsibilities. Supervision of other professionals. Licensure and certification.

02-SEP-2016 A 012301 AUDI 634 GRAD ELECTROPHYSIOLOGIC TECH II (1) 20 N 1
Electrophysiologic Techniques in Audiology II
This course introduces brain imaging techniques for cognitive brain research in Audiology with a focus on late auditory event-related potentials (ERP's). The course will focus on four main areas: (1) theory, (2) experimental design, (3) data collection, analysis, and interpretation, and (4) the use of late potentials in audiological practice. Basic tutorials on EEG and ERP software packages will include ASA and EEGLAB.

02-MAR-2009 A 012300 AUDI 635 GRAD AUDIOLOGY INTERNSHIP (4) 20 Y 12
Audiology Internship
A three-semester sequence of supervised patient care in a variety of sites closely associated with the university. Student clinicians will assume increasing responsibility for the full range of basic and intermediate level audiological procedures and interpretation. 4 credits each semester.

02-MAR-2013 A 012299 AUDI 636 GRAD PEDIATRIC AUDIOLOGY (2) 25 N 2
Pediatric Audiology
Hearing disorders and audiological techniques in the pediatric population. Topics include identification audiometry (screening protocols), childhood aural pathologies and treatment options, behavioral audiometry, and current management options.

02-SEP-2009 A 012298 AUDI 638 GRAD EDUCATIONAL AUDIOLOGY (3) 20 N 3
Educational Audiology
Overview of current management options for the (re)habilitation of children with hearing loss, including: educational issues, amplification, FM systems, classroom listening systems and counseling.

01-AUG-1998 A 012297 AUDI 640 GRAD SPECIAL TOPICS (1-3) 20 Y 15
Special Topics in Audiology
An elective course designed to focus on specific topics in audiology. Subject matter to be determined by the faculty and students. May be repeated to a limit of 6 credits.

02-JAN-2000 A 012296 AUDI 642 GRAD GERONTOLOGIC AUDIOLOGY (3) 20 N 3
Gerontologic Audiology
A broad study of the human aging process at the cellular, organ, system and social levels with respect to the hearing process. Study of the hearing-impaired elderly in a social
### Medical Audiology

Intensive study of the medical correlates of hearing impairment including medical/surgical intervention, pharmacology.

**Course Details**
- **Course ID:** 012295
- **Subject:** AUDI
- **Catalog:** 646
- **Career:** GRAD
- **Description:** Medical Audiology
- **Units:** 3
- **Default:** N
- **Rept Limit:** 20

### Hearing Science I

Note: Crosslisted with PSYC 646.

This course is the first in a two-course sequence in hearing science. It will survey contemporary theory and research in audition, with emphasis on modern mathematical and psychophysical methods. Major topics will include the anatomy and physiology of the auditory system, measurement and control of sound, auditory signal analysis, and basic auditory abilities such as detection, discrimination, and masking.

**Course Details**
- **Course ID:** 013273
- **Subject:** AUDI
- **Catalog:** 648
- **Career:** GRAD
- **Description:** Hearing Science I
- **Units:** 3
- **Default:** N
- **Rept Limit:** 25

### Research Methods

Students will design a clinical research project through: a critical review of the literature, determination of appropriate research design, and a statistical review.

Students will prepare an application for the Human Studies Protection Program Office.

**Course Details**
- **Course ID:** 014045
- **Subject:** AUDI
- **Catalog:** 650
- **Career:** GRAD
- **Description:** Research Methods
- **Units:** 3
- **Default:** N
- **Rept Limit:** 30

### Prevention of Hearing Loss

Focuses on the effect of noise on the auditory system, noise measurement and abatement, hearing conservation programming, OSHA standards, etc. The medical-legal aspects of hearing impairment.

**Course Details**
- **Course ID:** 012292
- **Subject:** AUDI
- **Catalog:** 652
- **Career:** GRAD
- **Description:** Prevention of Hearing Loss
- **Units:** 2
- **Default:** N
- **Rept Limit:** 20

### Assessment and Management of Auditory Processing Disorders

Special study of the central auditory nervous system with attention to normal and disordered function. Assessment of auditory processing disorders. Management strategies for auditory processing disorders.

**Course Details**
- **Course ID:** 012291
- **Subject:** AUDI
- **Catalog:** 654
- **Career:** GRAD
- **Description:** Assessment and Management of Auditory Processing Disorders
- **Units:** 3
- **Default:** N
- **Rept Limit:** 30

### Practice Management in Audiology

Organizing, managing and expanding an audiologic practice. Determining costs and fees, accounts management, quality assurance, third-party reimbursement, contracting for services, demographic trends, business and professional ethics, professional liability, marketing, certification and licensure.

**Course Details**
- **Course ID:** 012290
- **Subject:** AUDI
- **Catalog:** 656
- **Career:** GRAD
- **Description:** Practice Management in Audiology
- **Units:** 3
- **Default:** N
- **Rept Limit:** 20

### Investigation in Audiologic Practice

Directed course in which students investigate specific clinical problems in audiology. Will include research on a topic of clinical or professional interest. Investigation eventuates in a publishable paper. May be repeated to a maximum of 9 credits.

**Course Details**
- **Course ID:** 012289
- **Subject:** AUDI
- **Catalog:** 660
- **Career:** GRAD
- **Description:** Investigation in Audiologic Practice
- **Units:** 3
- **Default:** N
- **Rept Limit:** 20
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<td>A 3-semester sequence of advanced clinical practicum under the direction of</td>
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<td>a faculty member or preceptor in an external practicum. Each externship</td>
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<td>is custom-tailored to the interests of the trainee. May involve relocation</td>
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<td>Prerequisite: Requires consent of instructor in order to register.</td>
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<td>Individualized course with topics determined by student and instructor.</td>
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Special Project
This course is to be arranged to fit individual needs to cover topics of current interest, to participate in research projects or to receive some advanced training. Student must complete the Special Project form, have it signed by your mentor and return to Student Affairs in order to receive credit.
Method of Evaluation: To be determined by faculty mentor based on the specific project.

Clinical Elective-Urban
Prerequisite: 4th year standing.
This elective is designed to offer the student an opportunity to obtain clinical experience in the private practice of a community surgeon in the Louisville Metropolitan Area. The student will participate in both office and hospital settings and learn both the clinical as well as the organizational aspects of surgical practice. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.

Clinical Elective/Off-Campus
Prerequisite: 4th year standing.
The purpose of this course is to offer a clinical experience in an approved program in Surgery, usually under the supervision of a full time member of the faculty of a duly recognized educational or research institution. This experience will provide the student an opportunity to further develop clinical surgical knowledge and to assume responsibility for all aspects of patient care as a member of the surgical resident team. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.

Adult Thoracic Surgery
Prerequisite: 3rd year standing.
In this 4-week elective students will rotate through the adult thoracic surgery service at Jewish Hospital and University of Louisville Hospital. Students will participate in morning rounds, preoperative planning, assist in operations, follow all patients on whom they were present for the operation and participate in postoperative and discharge planning. It is expected that the student will attend clinic at least once a week. The student is expected to write daily notes, develop a daily plan, and present the patient to the attending physician. Students will be expected to observe/assist in a wide variety of procedures, in include but not limited to lung resection for benign & malignant disease, surgery for tracheal disease, surgery for benign & malignant disease of the esophagus, and lung transplantation. The student is expected to keep a daily log of the procedures and the learning points of the day. In addition, the student is expected to attend weekly fellow’s teaching conferences and be responsible for one presentation during the rotation, the weekly department conference, and any additional conferences.
pertaining to the management of the patients which they are following, (i.e. tumor board). The student will not take call but will be required to round on one weekend during the rotation.

Method of Evaluation:
The student will be required to keep a procedure log with daily activities as well as a journal of the learning points of the day; the student will prepare and present a powerpoint presentation during the rotation that will follow the American Board of Thoracic Surgery Curriculum; attendance policy is strictly enforced; and the student evaluation is based on their attendance, availability, quality of participation in cases and the aforementioned case presentation and weekly lectures.

01-JAN-2015 A 016101 CATS 912 ME ADULT CARDIAC SURGERY (4) 1 N 4
Adult Cardiac Surgery
Prerequisite: 3rd year standing.
In this 4-week elective the student will rotate through the adult cardiac surgery service at Jewish Hospital, assigned to a specific surgeon daily with every effort made for the student to follow a single surgeon and patients for a complete week. The student will participate in morning CVICU rounds, preoperative planning, assist in cardiovascular operations, follow patients on whom they were present for the operation, and participate in postoperative and discharge planning. It is expected that the student attend clinic at least one day a week. The student is expected to write daily notes, develop a daily plan, and present the patients to the attending physician. Students will be expected to observe/assist in a wide variety of procedures, to include but not limited to: coronary artery bypass grafting, valve repair and replacement, advanced aortic reconstruction, transcatheter aortic valve replacement, endovascular aortic repair, ventricular assist device, and cardiac transplantation. The student is expected to keep a daily log of the procedures and learning points of the day. In addition, the student is expected to attend the weekly fellow conference and be responsible for one presentation during the rotation as well as attend the weekly department conference. The student will not take call but will be required to round on one weekend during the rotation.

Method of Evaluation:
The student will be required to keep a procedure log with daily activities as well as a journal of the learning points of the day; will prepare and present a powerpoint presentation during the rotation that will follow the American Board of Thoracic Surgery Curriculum; attendance policy is strictly enforced; and the student evaluation is based on attendance, availability, quality of participation in cases and the aforementioned case presentation and weekly lectures.

01-JAN-2015 A 016099 CATS 913 ME CARDIOVASCULAR ICU (4) 1 N 4
Cardiovascular Intensive Care Unit
Prerequisite: 3rd year standing.
In this 4-week elective the student will rotate through the cardiovascular intensive care unit. The student will assist the midlevel health professionals and fellows in assessing patients in the CVICU. The student is expected to select 5 patients daily and will write daily notes, develop a daily plan, and present patient on multidisciplinary rounds to the intensivist and rounding team. Students will be expected to observe/assist in a wide variety of procedures, to include but not limited to: central line placement, arterial
line placement, thoracentesis & thoracostomy tube placement, & bedside chest explorations
and ECMO cannulation. The student is expected to attend weekly fellow conference and be
responsible for one presentation during the rotation, weekly department conference, as well
as the bimonthly intensivist meeting. The student will not take call but will be required
to round on one weekend during the rotation.
Method of Evaluation:
The student will be required to keep an active log with daily activities as well as
participate in a minimum of 10 procedures; prepare and present a powerpoint presentation
during the rotation that will follow the American Board of Thoracic Surgery Curriculum;
attendance policy is strictly enforced; and the evaluation is based on attendance &
availability, quality of participation in cases and the aforementioned case presentation
and weekly lectures.

01-MAR-2016 A 016499 OTOL ME SPECIAL PROJECT N 16
Special Project
This course is to be arranged to fit individual needs to cover topics of current interest, to participate in research projects or to receive some advanced training. Student must complete the Special Project form, have it signed by your mentor and return to Student Affairs in order to receive credit.

Method of Evaluation: To be determined by faculty mentor based on the specific project.

Clinical Elective/Urban
Prerequisite: 4th year standing.
This elective is designed to offer the student an opportunity to obtain clinical experience in the private practice of a community surgeon in the Louisville Metropolitan Area. The student will participate in both office and hospital settings and learn both the clinical as well as the organizational aspects of surgical practice. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.


Clinical Elective/Off-Campus
Prerequisite: 4th year standing.
The purpose of this course is to offer a clinical experience in an approved program in Surgery, usually under the supervision of a full time member of the faculty of a duly recognized educational or research institution. This experience will provide the student an opportunity to further develop clinical surgical knowledge and to assume responsibility for all aspects of patient care as a member of the surgical resident team. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.


Otolaryngology
Prerequisite: 4th year standing.
In this 2 or 4 week rotation, students will attend various conferences including pre and post-op conference where indications and outcomes of upcoming and prior cases are discussed. The student will be part of a residency team at the VAHC, Norton, Kosair or UofL Hospitals and will actively participate in clinic patient evaluation after a "shadowing period", and perform complete head and neck examinations with faculty and resident instruction. There will be opportunities to observe and assist in operative procedures such as tonsillectomies, endoscopic sinus surgery, otologic surgery, head and neck cancer surgery and facial trauma. A list of objectives will be distributed at the beginning of the course to guide the student in self-instruction, and regular discussions of the course objectives will be scheduled with the faculty.

Method of Evaluation: Observation of performance, paper presentation of chosen topic to faculty and residents and oral examination.
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Ahec Rotation-Urology
Clinical Prerequisite: 4th year standing
This 4-week experience will be obtained in various Urology practices in rural Kentucky. The student will be encouraged to participate in the community to gain an understanding of how the community characteristics affect medical care delivery.
Method of Evaluation: Observation of performance

01-JUL-2006 A 014323 UROL 906 ME CLIN ELECTIVE-LOUISVILLE (1-16) 150 N 16
CLINICAL ELECTIVE/URBAN
Clinical Prerequisite: 4th year standing
Experience will be obtained in various Urology private practices in the local area. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.
Method of Evaluation: Observation of performance

01-JUL-2006 A 014324 UROL 907 ME CLINICAL ELECT - OFF CAMPUS (1-16) 150 N 16
CLINICAL ELECTIVE/OFF-CAMPUS
Prerequisites: 4th year standing
A clinical experience may be obtained in an approved program in Urology under the supervision of the faculty of a duly recognized educational or research institution. This rotation would be especially useful for those students planning a career in urology and wishing to experience another institution first hand. The student must complete the Off-Campus Request Form and have it approved by the departmental course director.
Method of Evaluation: Observation of performance

01-JUL-2006 A 014325 UROL 911 ME Urology (1-16) 2 N 16
Urology
The Prerequisite: 4th year standing
In this 4-week elective, the student will participate as a member of the urology team in the clinic, wards, and operating rooms. The student will learn how to evaluate and work up all common urological conditions and diseases. They will learn basic urologic clinical skills such as a physical exam and urinary catheter placement. They will observe urologic surgery and participate at the appropriate level in the operating room. A 30 minute oral presentation on an urology topic of the students' choice will be required.