

Hearing Science Lab

The Hearing Science Lab houses sound-treated audiometric testing suites equipped for the following clinical procedures:

- **Otoscopy**
This involves use of an otoscope for inspecting the ear canal and for visualizing the tympanic membrane or ear drum.
- **Pure-Tone Audiometry**
This involves use of an audiometer that delivers pure tones of varying intensities and frequencies and is used for testing hearing acuity in children and adults.
Pure-tone audiometry also involves use of masking noise to test one ear at a time, without the other ear's participation.
The lab also houses portable audiometers that are used for hearing screenings conducted by student clinicians as part of clinical practicum requirements
- **Tympanometry**
This involves testing for the presence of the acoustic reflex and for assessing middle ear function, measured by the compliance or ease of movement of the tympanic membrane or ear drum.
- **Oto-Acoustic Emission Testing**
Oto-acoustic emission screening and testing involves measuring of sound reflected back from the inner ear hair cells, also providing a measure of hearing acuity and integrity of the auditory system.

Together, these techniques permit easy, rapid, non-invasive, and objective measures of hearing acuity and auditory function.