



College of Education

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**Edgar R. Garrett Speech and Hearing Clinic
 Overview of Clinical Instrumentation**

Instrument Name	Location	Intended Use
Audiometers	Audiology Suite	Portable devices used in clinic, school and community settings to detect hearing impairments and determine referral to audiologist for a complete hearing evaluation.
Computerized Speech Lab (CSL)	RM 154	Linguistic analysis for assessment and treatment of disordered voice and speech
i-Pads	ERG Central Office	Various game apps are incorporated into therapy activities addressing semantic, articulation, and pragmatics training; includes video recording for live biofeedback; can be used for positive behavior reinforcement and to motivate younger clients.
Rhino-Laryngeal Stroboscopy (i.e., Nasoendoscopy)	RM 154	Imaging laryngeal and pharyngeal structures to detect anatomical and physiological abnormalities (e.g., VPI, vocal nodules, VF paralysis, etc.)
Nasometer II	RM 174	Assessment and treatment tool for abnormalities in resonance (e.g., hypo-/hyper-nasality) associated with developmental (e.g., cleft palate and syndromes) or acquired disorders (e.g., strokes, traumatic brain injuries, etc.).
Palatometer	RM 154	Examine lingual strength, coordination and rate as tongue moves along the palate and teeth to produce different sounds.
Phonatory Aerodynamic System (PAS) Model 6600	RM 154	Measures key airflow and pressure (e.g., frequency, sound pressure, airflow, and air pressure) for speech and voice; also used for monitoring laryngeal functions.

Instrument Name	Location	Intended Use
SALT Software	Graduate Computer Lab	Provides systemic analysis of different aspects of language such as content, form and use. Program contains normative data on complexity, diversity and use of vocabulary that allows examiner to compare individual samples to established norms.
Sound and WAY Beyond (S&B)	RM 153, 171	Treatment tool used for auditory training of various levels of hearing loss; includes Aural Rehabilitation program for individuals with cochlear implants.
Video Voice Speech Training	RM 171, 153	Computer-based treatment tool use in treatment of voice, hearing loss, strokes, articulation and fluency therapy.
Visipitch IV	RM 171, 174	Provides visual biofeedback of critical vocal parameters (e.g., pitch, volume and rate), vowel training and interactive games to motivate younger clients in therapy.
PERCI-SARS	RM 154	Computer software/hardware used for the in depth assessment of speech aeromechanics and nasal airway patency. Used for the assessment of palatal function to determine whether a there is sufficient separation between the nasal and oral cavities during speech. It also provides measurements for laryngeal airway resistance, volume flow rate, respiratory flow volume, phonation time and phonation volume.
Aerophone	RM 166	Provides a complete system for measuring air-flow and air pressure parameters. The software delivers an analysis of peak-flow, vital capacity, duration, phonation quotient, mean air-flow rate, loudest tone level, softest tone level, sound pressure level, ab-adduction rate, subglottal air pressure, glottal power, intraoral pressure, glottal efficiency, and glottal resistance.