

COURSE: SHS 625- Audio Instrumentation [Fa '07]

GRADUATE CATALOG DESCRIPTION: Covers basic electronics, auditory function measures, research, and computer use.

INSTRUCTOR: Dr. Terrio [office Rm 228 SRS Phone 266-5220] [Office hours are posted to my door]

FORMAT: 3 hrs credit; Lecture, demonstrations (TBA)

MEETINGS: Mondays and Wednesdays, 11 a.m.-12:15 p.m.

MATERIALS:

OBJECTIVES:

1. To develop a basic vocabulary related to audio instrumentation.
2. To develop an understanding of the principles of equipment operation.
3. To demonstrate basic acoustic concepts and their relationship to equipment operation.

ASHA KASA- Audiology [3/2003] content

Standard IV-B11. Instrumentation and bioelectrical hazards

Standard IV D17, E18. Use instrumentation according to manufacturer's specifications and recommendations.

Indicator: The student will participate in class discussion and will take lecture notes on equipment that includes clinical audiometers, OAE systems, hearing aid test systems, and cerumen removal systems

Target: The student will participate in classroom discussion 80% or more of the time and will take notes during lectures 100% of the time.

Indicator: The student will respond in writing to pertinent items included on formative assessments.

Target: Student responses will occur at an accuracy level of 80% or higher.

Indicator: The student will demonstrate equipment operation as the course instructor observes.

Target: The student will complete items on a performance outcomes checklist at an 80% or high level of accuracy.

Standard IV-B13. Physical characteristics and measurement of acoustic stimuli.

Standard IV D18, E19. Determine whether instrumentation is in calibration according to accepted standards.

Indicator: The student will participate in class discussion and will take lecture notes on equipment calibration as it relates to clinical audiometers, OAE systems, hearing aid test systems, and cerumen removal systems.

Target: The student will participate in classroom discussion 80% or more of the time and will take notes during lectures 100% of the time.

Indicator: The student will respond in writing to pertinent items included on formative assessments.

Target: Student responses will occur at an accuracy level of 80% or higher.

Indicator: The student will demonstrate equipment calibration skills as the course instructor observes.

Target: The student will complete items on a performance outcomes checklist at an 80% or high level of accuracy.

SUPPLEMENT: Bring a basic calculator with a log function to all meetings. Cell phones cannot be used as calculators during formative assessments.

FORMATIVE OUTCOMES ASSESSMENT: Learning outcomes will be formally assessed at the end of each module in a written, multiple-choice format. Students must also demonstrate competence [manipulation of controls, measurement procedures] with the instrumentation included in this course. Students are expected to generalize their competencies to clinical practicum.

GRADING: The final grade is derived by adding points from all tests.
90-100%=A; 80-89%=B; 70-79%=C; 60-69%=D

GENERAL: Final grades are available online through the University SOAR web site.

Make-up exams require a signed physician's excuse; arrange make-ups with your instructor; make-ups are to be completed within a week after returning from an absence; incomplete makeup's earn a score of zero after the allotted time period.

Be sure to enter the examination dates for this course in your calendar

Please switch-off cell phones during class meetings and formative assessments.

If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability qualifies. Address: The University of Southern Mississippi, Office for Disability Accommodations, 118 College Drive # 8586, Hattiesburg, MS 39406-0001, Voice Telephone: (601) 266-5024 or (228) 214-3232 Fax: (601) 266-6035. Individuals with hearing impairments can contact ODA using the *Mississippi Relay Service* at 1-800-582-2233 (TTY) or email Suzy Hebert at

From the USM Undergraduate Bulletin: "When cheating is discovered, the faculty member may give the student an F on the work involved or in the course. If further disciplinary action is deemed appropriate, the student should be reported to the Dean of Students. In addition to being a violation of academic honesty, cheating violates the Code of Student Conduct and may be grounds for probation, suspension, and/or expulsion. Students on disciplinary suspension may not enroll in any courses offered by The University of Southern Mississippi."

The best time to ask questions is either during or immediately after class.

Please adopt a buddy who will take notes, collect handouts, etc. for you if you have to miss a class. Students are ultimately responsible for any material that is missed during an absence.

If you have any special medical needs, please be sure to inform either your instructor or a friend in class so we'll know what to do in an emergency.

Course topics include, but are not limited to:

Module: Clinical audiometers
Module: Filters
Module: Audiometer calibration
Module: Instrumentation for cerumen management
Module: OAE instrumentation
Module: Fonix 7000 hearing aid test system
Module: CE96 software

In compliance with USM LEC guidelines 2/13/06 [www.usm.edu/lec/teaching_resources_syllabus.html]