Instructor: Dr. Steve Oshrin
Time: T-TH 10:45 a.m.
Location: JBG 215

Final Exam: Tuesday, December 4 (tentative)

Instructional Objectives: In this class you will:

- learn the basic concepts of acoustics as they relate to hearing measurement
- learn about the psychophysical methods of measuring hearing thresholds
- learn about the calibration of hearing measurement devices
- learn about subject response criteria
- learn how to measure pure tone thresholds, speech thresholds and speech discrimination
- learn how to mask
- learn how to evaluate and interpret audiometric test results and make appropriate referrals

Outcomes Assessment: Your success in meeting the instructional objectives will be assessed by:
- evaluating your performance on classroom discussions
- evaluating your performance on laboratory assignments; and
- evaluating your performance on written and practical examinations

Other readings to be assigned.

Canvas Supplement
This class will use the university’s Canvas system as a supplement to this course. You may access Canvas using your SOAR ID and password. Canvas will be used to post readings, videos, archive Powerpoint presentations used in class, provide links to internet resources, disseminate announcements about class and to take quizzes and exams. You may access Canvas by using the url:

https://usm.instructure.com/ or http://info.usm.edu/

Tests and quizzes
There will be 3 exams given during the semester, with each exam worth 100 points. The final exam will be cumulative in nature and will be worth 125 points. The final exam is scheduled for Tuesday, December 4 at 12:30 p.m.

Quizzes will be given from time to time to assess your progress in class. These quizzes may be given in class or may be assigned on Canvas.
Grading:
Final grades will be based on the following formula:
Percentage = points scored/points possible X 100

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<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
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<tr>
<td>80-89</td>
<td>B</td>
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<tr>
<td>70-79</td>
<td>C</td>
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<tr>
<td>60-69</td>
<td>D</td>
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<tr>
<td>&lt;60</td>
<td>F</td>
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Example: If you earned 40 of 50 points on quizzes, 95 points on exam 1, 89 points on exam 2, 78 points on exam 3 and 92 points on the final exam you would have earned 394 points out of a possible 450. So, your average would be 394/450 = .875 (or 87.5%). Your final grade would be B. The final average will be rounded up to the nearest integer (i.e. 88.3% will be rounded to 89%). There is no extra credit available in this class.

Class Policies
Office Hours: My office is in SHS 119 and my office hours are posted on my door. If those times aren’t convenient, see me to arrange a convenient time to meet. Absences in excess of 3 will result in a 5% reduction in your grade for each absence in excess of 3. Excuses (medical or other) are not necessary for the first 3 absences and will not be accepted for subsequent absences. If you miss an exam, the next exam will count double (i.e. be worth 200 points). You are allowed to make up only one exam in this manner; if you miss more than 1 exam, you will receive a "0" for that exam.

Please be on time for class. Your cell phone should be set to vibrate or off during class.

Academic Honesty:

All students at the University of Southern Mississippi are expected to demonstrate the highest levels of academic integrity in all that they do. Forms of academic dishonesty include (but are not limited to):

- Cheating (including copying from others’ work)
- Plagiarism (representing another person’s words or ideas as your own; failure to properly cite the source of your information, argument, or concepts)
- Falsification of documents
- Disclosure of test or other assignment content to another student
- Submission of the same paper or other assignment to more than one class without the explicit approval of all faculty members’ involved
- Unauthorized academic collaboration with others
- Conspiracy to engage in academic misconduct

Engaging in any of these behaviors or supporting others who do so will result in academic penalties and/or other sanctions. If a faculty member determines that a student has violated our Academic Integrity Policy, sanctions ranging from resubmission of work to course failure may occur, including the possibility of receiving a grade of “XF” for the course, which will be on the student’s transcript with the notation “Failure due to academic misconduct.” For more details, please see the University’s Academic Integrity Policy. Note that repeated acts of academic misconduct will lead to expulsion from the University.
Tentative Topic Outline

1. Introduction
2. Psychoacoustic foundations
3. Pure tone air conduction testing techniques
4. Pure tone bone conduction testing techniques
5. Speech reception threshold testing
6. Speech discrimination testing
7. Lateralization and masking
8. Screening for hearing loss
9. Calibration standards
10. Audiometer maintenance and troubleshooting
11. Other topics tba

Knowledge and Skills
In this course you will acquire knowledge (areas of content that you can recall, relate and use) and skills (the learned capacity to do some task). Your acquisition of knowledge and skills will be assessed during the course of the semester (through formative assessment) and at the end of the semester (through summative assessments). Formative assessments will measure your progress during the course of the semester; if your progress is unsatisfactory, they may be used to formulate remedial measures to allow you to acquire the requisite knowledge and skills.

Learning Outcomes
Learning outcomes are behaviors that are observable and measurable; at the completion of this course you will be able to:

- Define the psychophysical measures used in audiometric testing
- Determine if an audiometer is in calibration
- Accurately measure hearing thresholds for pure tones and speech
- Associate audiometric configurations with various etiologies
- Evaluate the efficacy of hearing screening programs
- Relate changes in sound pressure and sound power to changes in intensity
- Utilize tuning fork tests to confirm other audiometric test results
- Measure speech discrimination ability
- Explain the otologic/neurologic conditions that may cause hearing loss
- Demonstrate appropriate referral decisions based on audiologic findings

This course will provide knowledge and skills to meet Standard IV A3, A7, A8, A9, A-10, A-11, A-12, A-13, A-14, A-18, A-19, A-23, A-24, A-26, A-29, B-1, B-2, B-3, C-1, C-2, C-3, C-4, C-5, C-7, C-8, C-9, C-10, and C-11 of the 2012 ASHA certification standards in Audiology.

New standards will go into effect on January 1, 2020. This course will provide knowledge and skills to meet the following 2020 certification standards: A5, A7, A12, A13, A14, B4, C1-4, and C8-10.

Quizzes and exams during the semester provide formative assessments of your progress toward acquiring the knowledge and skills necessary to become a competent audiologist. Students who are not demonstrating
satisfactory progress may be required to participate in additional activities designed to allow successful completion of the course.

For complete information on ASHA certification standards in Audiology, visit http://www.asha.org/Certification

Disability Accommodations

If a student has a disability that qualifies under the Americans 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 emailing ODA at oda@usm.edu.