Course Description: This course deals with the study of auditory/speech processing and its disorders—perception, acoustic cues for perception, theories of perception, assessment and treatment of auditory processing/perceptual disorders (APD).

Instructor: Amitava Biswas, Ph.D.  E-mail: Amitava.Biswas@usm.edu
Office: JBG 242, Office Hours: MWF 10:00-11:50 AM and by appointments in advance.
Telephone: (601) 266-6118,  Fax: (601) 266-5224

Textbook Requirement:

Bibliography:


**Knowledge Outcomes:**
Upon successful completion of this course, the student will be able to describe the:

1. acoustic parameters of sound and how they relate to speech, hearing, auditory processing/speech perception.
2. theories of speech perception.
3. anatomical and physiological organization of the central auditory system.
4. nature of APD and related disorders.
5. procedures used in assessment of APD.
6. procedures used in treatment of APD.
7. nature of assistive technology and its impact on APD.
8. applications of psychology and counseling in APD.
9. resources available to persons and families of persons who have APD.
10. multicultural aspects pertaining to the topics of the study.

**Skills Outcomes:**
Upon successful completion of this course, the student will be able to:

1. use formulae and calculate various acoustic parameters including resonant/formant frequencies.
2. identify peripheral versus central deficits
3. use procedures in identification and assessment of APD.
4. use procedures, strategies, assistive technology in treatment of APD.
5. apply the principles of psychology and counseling in management of APD.
KASA:
All the learning outcomes fulfill the criteria of American Speech-Language-Hearing Association (ASHA) Knowledge and Skills Acquisition (KASA) standards IV B, C, & D in speech-language pathology and IV C, D, & E in audiology.

Tentative Course Outline:
The following is the tentative course sequence. The timing of the course sequence is often influenced by class discussion and participation. This sequence may be altered as the course progresses.

- Acoustics, Psychoacoustics, Acoustic/Perceptual Cues, Theories of Perception
- Neuroanatomy and Physiology of Central Auditory System
- Definition, Description, Behaviors, and Co-morbidity of APD
- Current Issues in APD
- Assessment Procedures in APD.
- Treatment Procedures in APD.
- Validity, Reliability, Sensitivity, Specificity, Evidence Based Practice
- Roles of Speech-Language Pathologist & Audiologist
- Technological Applications in APD
- Applications of Psychology and Counseling in APD.

Class Requirements:
Students must be willing to accept the responsibilities of university graduate students by reading the materials, taking the tests, completing assignments, and participating appropriately in class (e.g., adding to class discussion). Some classwork and homework will be assigned from time to time for practice only and will not count directly in the final grade.

Formative Assessment:
There will be four examinations - three regular exams and a final exam. Every exam may cover any material covered earlier. Exams may consist of multiple choice, matching, diagramming, true-false, fill-in-the blank, short answer, and/or essay questions. Some of the exams may be online, or paper or scantron type. No make-up exams will be given. Should a student miss one of initial three regular exams (not the final exam), that student will receive a grade equivalent to the lowest of the other three exams. If a student has two such grades, the student automatically fails the course. The final examination is required. Missing the final examination is an automatic failure. Scheduling of the exams or if there is a change in the scheduling of the exams and/or requirements, it will be announced by the instructor well in advance. The final exam is scheduled according to university calendar.

Summative Assessment:
In groups of two, students will prepare to present for 20 minutes on a specific topic directly focused on one of the chapters of the textbook. Once students have selected a specific topic, they should sign up so there will be no duplication. The actual presentation should include external sources of information, at least two peer reviewed research publications dated 2010 or later. Students should include a one-page handout for the class summarizing the presentation. APA style is required.

Grading Scale:
Each examination and the project will be worth 100 points: The final grade will be based upon percentage earned.
Grading Scale: 90-100% = A; 80-89% = B; 70-79% = C; 60 – 69% = D; < 59% = F.
Late Assignments or Projects:
Late assignments will not be accepted. Presentations and any other assignments or particular components of the project must be turned in on the due date to avoid receiving a grade of “0”.

Remediation:
Should formative and summative assessments indicate that you are not meeting the objectives of the class, you may be required to participate in remedial activities (e.g., additional readings, individual meetings with the instructor, follow-up assessment) designed to permit you to successfully complete the course. Participation in those remedial activities, however, will not guarantee your successful completion of the course.

Academic Honesty:
The following is 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.”

ADA Policy:
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 Suzanne.Hebert@usm.edu.

GENERAL:
Students are expected to check email at their USM-address regularly for any official communication.

Class attendance is required. Unexcused absences will not be permitted and will result 5% decrease in the final grade. Arriving after the class starts and/or departing before the class ends, will result 1% decrease in the final grade. For excuse, doctor’s note/documents required which can be verified by the instructor.

Students are responsible for purchasing or borrowing a computer that is suitable for viewing on-line supplement materials; these materials should be accessed well in advance of formative assessments; students who wait until the last minute make themselves vulnerable to unforeseen events such as power outages, equipment breakdowns, or natural disasters.
Please disable cell phones and other smart devices during class, unless essential and permitted by the instructor. Please do not use computers (tablet, laptop etc.) in the class for any distracting activity not directly related to the instructional purpose. Students who inappropriately use any such devices during class may not be permitted to use it for the remainder of the semester.

Please do not ask to take any exam (including the final) early; the University requires that students complete final exams only at the scheduled time.

Your instructor will not discuss grades over the phone, by email or text message for any reason. Please do not ask your instructor for your final grade. Final grades are available through your on-line SOAR account.

The best time to ask questions relevant to all students is during the class.

Please adopt a "buddy" (a fellow class member) to "cover" for you when you're absent from course activities. Your buddy should pickup any handouts and take notes for you. Students are responsible for material covered during an absence.

A student with special medical problems should either contact his/her buddy or the instructor so we’ll know what to do in a medical emergency.