

**SYLLABUS**  
**CSD 852: Hearing Assessment (Lecture), 2 s.h.**  
**University of Wisconsin-Stevens Point**  
**Fall 2022**  
**MW 10:30-11:20 am**  
**Room 229 CPS**

**Professor:** Dr. Rebecca L. Warner Henning  
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**Office Hours:** Mondays 2:30-3:30, Thursdays 1:30-2:30, Fridays 11-noon, and by appt.  
*Zoom and phone "office hours" appointments can also be arranged as needed, either during my regular office hours times or at other times. Please email or call me to schedule Zoom or phone appointments.*

**Prerequisites and Co-requisites:**

- First-year AuD student
- Concurrent enrollment in CSD 853 Hearing Assessment Lab
- Undergraduate courses in hearing science, acoustics, and introductory audiometry are recommended, but not required.

**Course Description:**

This course covers the purposes, methods, and theoretical and scientific rationale underlying basic methods of hearing assessment. It is designed to be taken in conjunction with the associated lab course, CSD 853. Following completion of the lecture and lab courses, students will be able to assess the integrity and sensitivity of the ear via otoscopy, pure-tone air- and bone-conduction testing including masking, speech audiometry, and the most common acoustic admittance measures. Students will also be able to take a case history, document and report results, and communicate results to patients. Students will develop a beginning-level ability to rule out medical disorders and make appropriate referrals. Finally, students will be able to adapt the audiologic test battery in special cases or with special populations.

**Required Textbook:**

Katz, J., Chasin, M., English, K., Hood, L., & Tillery, K. (Eds.). (2015). *Handbook of Clinical Audiology*, 7<sup>th</sup> ed. Baltimore: Lippincott Williams & Wilkins.

**Additional required readings are available on the course Canvas site or online.**

**Listed below are some additional textbooks that you may find helpful:**

Yacullo, W. S. (1996). *Clinical Masking Procedures*. Boston: Allyn & Bacon.

Roeser, R. J., Valente, M., & Hosford-Dunn, H (Eds.). (2007). *Audiology Diagnosis*, 2<sup>nd</sup> ed. New York: Thieme.

Busacco, D. (2010). *Audiologic Interpretation Across the Lifespan*. Boston: Pearson Education.

### **Course Format:**

- This class will meet in-person in room 229 in the College of Professional Studies building, unless circumstances require remote or virtual classes.
- In addition to the class meetings, there will also be some recorded lectures you will be required to watch outside of class meeting times. These will be posted to Canvas and announced in class.

### **Student Privacy and Intellectual Property of Recorded Lectures:**

Lecture materials and recordings for this class are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture is not already recorded, you are not authorized to record my lectures without my permission unless you are considered by the university to be a qualified student with a disability requiring accommodation.

[Regent Policy Document 4-1] **Students may not copy or share lecture materials and recordings outside of class**, including posting on internet sites or selling to commercial entities. **Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission.** Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

### **Course Requirements**

**You must complete *all* of the requirements listed below in order to pass the course.**

- You are required to prepare before class and before any meetings with me. Reading assignments and recorded lectures must be completed before the class period on the assigned date and before any meetings with me on that topic. This will allow us to use class or meeting time for more in-depth discussions, clarifications, and to discuss how the information applies to clinical cases.
- Class contributions: In order to benefit from class sessions, you should come prepared to participate in discussions and in-class exercises. Required readings and recorded lectures must be completed **before** the class when that topic will be discussed, and you should use the questions on the ppts to help guide your readings. As a guideline, each student is expected to contribute to class at least once per class session, and preferably twice or more if there are sufficient opportunities. Students are also expected to **not** monopolize class discussion, and to also allow opportunities for other students to participate.
- Presentation of a clinic case observation: either a case history or a results explanation. See the separate assignment description.
- Exams: there will be two midterms and one final exam. The exam format will be mostly short-answer. **The final exam will be comprehensive. It will take place during final exam week, and the exact date and time will be arranged.**
- Attendance: You are responsible for attending class unless you discuss (an) excused absence(s) with me, preferably ahead of time if possible. Repeated **unexcused** absences will, at the least, result in a meeting to discuss and troubleshoot any barriers you are experiencing to attending

class, and if the problem remains unresolved, may result in an improvement plan to meet ASHA’s professionalism competency. **If you are concerned that a family or personal situation will cause you to miss class repeatedly, please discuss this with me proactively so we can discuss some possible solutions, rather than waiting until you have repeated unexcused or unexplained absences.**

- **DO NOT attend class if you have symptoms of Covid-19.**

Please see additional information about grading and expectations in the “Grading Explanations” handout.

**Students with Disabilities:**

If any student has a disability and requires reasonable accommodations to meet these requirements, you must contact the UWSP Disability and Assistive Technologies Center (DATC) to arrange for accommodations.

**Religious Observances:**

I will accommodate religious beliefs according to UWS 22.03 if you notify me within the first 3 weeks of the semester regarding specific dates with which you have conflicts.

**Academic Misconduct:**

If a student is caught cheating or plagiarizing on any assignments/exams, the UWSP Student Misconduct procedures will be followed.

**Grading**

Your final grade is determined by averaging your percent correct (*not* total number of points) on the following components. I’ll calculate your final grade using the following weighting scale:

Observation presentation	20%
Exam I	25%
Exam II	25%
Final Exam	30%

**Grading Criteria:**

For complete information about grading criteria, please see the separate “Grading Explanations” handout, as well as the assignment description handout.

**Grading Scale:**

<b>UWSP</b>											
Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Percentage	100-92	91.9-90	89.9-88	87.9-82	81.9-80	79.9-78	77.9-72	71.9-70	69.9-68	67.9-60	<60

**ASHA Standards/Competencies:** The following American Speech-Language-Hearing Association (ASHA) Council for Clinical Certification (CFCC) 2020 standards for the Certificate of Clinical Competence in Audiology (CCC-A) are partially or fully covered in this course (see table below). For standards that are partially covered, **the portion covered in this class is bolded.**

ASHA CCC-A/CFCC (2020) standard; The student will demonstrate knowledge of (for items lettered A) and knowledge and skills in (for items lettered B-F):	Method of Assessing Competency
A1: Genetics, embryology and development of the auditory and vestibular systems, <b>anatomy and physiology, neuroanatomy and neurophysiology, and pathophysiology of hearing</b> and balance over the life span	Passing grade on all exams
A4. Principles, methods, and applications of acoustics, psychoacoustics, and speech perception, with a focus on how each is impacted by hearing impairment throughout the life span	Passing grade on all exams
A5. Calibration [calibration only covered to a limited extent] and use of instrumentation according to manufacturers' specifications and accepted standards	Passing grade on all exams
A7. <b>Applications and limitations of specific audiologic assessments</b> and interventions <b>in the context of overall client/patient management</b>	Passing grade on all exams
A8. Implications of cultural and linguistic differences, as well as individual preferences and needs, on clinical practice and on families, caregivers, and other interested parties	Passing grade on all exams, and Passing grade on presentation
A10. Effects of hearing impairment on educational, vocational, social, and psychological function throughout the life span	Passing grade on all exams, and Passing grade on presentation
A12. Effective interaction and communication with clients/patients, families, professionals, and other individuals through written, spoken, and nonverbal communication	Passing grade on all exams, and Passing grade on presentation
A15. <b>Client-centered</b> , behavioral, cognitive, and integrative theories and <b>methods of counseling and their relevance in audiologic rehabilitation</b>	Passing grade on exam question(s) covering this material
A16. Principles and practices of client/patient/person/family-centered care, including the role and value of clients'/patients' narratives, clinician empathy, and shared decision-making regarding treatment options and goals	Passing grade on all exams, and Passing grade on presentation
A17. Importance, value, and role of interprofessional communication and practice in patient care	Passing grade on all exams
A18. The role, scope of practice, and responsibilities of audiologists and other related professionals	Passing grade on all exams
B8. Performing developmentally, culturally, and linguistically appropriate hearing screening procedures across the life span	Passing grade on all exams
B9. Referring persons who fail the hearing screening for appropriate audiologic/medical evaluation	Passing grade on all exams
C1. Gathering, reviewing, and evaluating information from referral sources to facilitate assessment, planning, and identification of potential etiologic factors	Passing grade on all exams, and Passing grade on presentation
C2. Obtaining a case history and client/patient narrative	Passing grade on all exams, and Passing grade on presentation
C3. Obtaining client/patient-reported and/or caregiver-reported measures to assess function	Passing grade on all exams, and Passing grade on presentation

C4. <b>Identifying, describing, and differentiating among disorders of the peripheral and central auditory systems</b> and the vestibular system	Passing grade on all exams
C7. <b>Selecting, performing, and interpreting a complete immittance test battery based on patient need and other findings; tests to be considered include single probe tone tympanometry</b> or multifrequency and multicomponent protocols, <b>ipsilateral and contralateral acoustic reflex threshold measurements, acoustic reflex decay measurements,</b> and Eustachian tube function	Passing grade on all exams
C8. Selecting, performing, and interpreting developmentally appropriate behavioral pure-tone air and bone tests, including extended frequency range when indicated	Passing grade on all exams
C9. Selecting, performing, and interpreting developmentally appropriate behavioral speech audiometry procedures to determine speech awareness threshold (SAT), speech recognition threshold (SRT), and word recognition scores (WRSs); obtaining a performance intensity function with standardized speech materials, when indicated	Passing grade on all exams
C10. Evaluating basic audiologic findings and client/patient needs to determine differential diagnosis and additional procedures to be used	Passing grade on all exams
C13. Selecting, performing, and interpreting tests for nonorganic hearing loss	Passing grade on all exams
E1. Engaging clients/patients in the identification of their specific communication and adjustment difficulties by eliciting client/patient narratives and interpreting their and/or caregiver-reported measures	Passing grade on all exams, and Passing grade on presentation
E4. Providing assessments of family members' perception of and reactions to communication difficulties	Passing grade on all exams, and Passing grade on presentation
E5. Identifying the effects of hearing problems and subsequent communication difficulties on marital dyads, family dynamics, and other interpersonal communication functioning	Passing grade on all exams, and Passing grade on presentation

**A passing grade is a B or better. If a student fails to complete any of the tasks listed above, they will work with the course instructor to either redo the task or complete an additional task in order to demonstrate competency. If a student is not able to successfully complete this task, then an improvement plan will be initiated to remediate the skill in question. See the AuD handbook section on improvement plans.**

#### **Instructor's Objectives:**

In order to help you achieve the above standards, I will do the following:

- 1) Provide you with suggestions for study skills and strategies;
- 2) Prepare classes that include a mix of lecture and active learning activities that are designed to engage you in the material and facilitate your learning;
- 3) Explain difficult concepts to the best of my ability;
- 4) Be available to answer questions or discuss the material;

- 5) Provide a non-threatening environment in which it is acceptable to “learn out loud,” learn by trying new things and new ideas, and not always have the “right” answer.

### Course Schedule

The following is a tentative schedule of course topics.

Day	Date	Topic	Reading
W	September 7	Introduction to course, expectations, & tips for effective learning; Goals in audiology Start disorders and medical referrals?	Katz et al. chapter 1
<b>M</b>	<b>September 12</b>	<b>Goals paper due (will not be turned in)</b> Disorders and medical referrals	Jordan & Roland (2000); Federal regulations re: red flag conditions; AAO-HNS position statement re: red flag conditions
W	September 14	Disorders and medical referrals; start pure-tone audiometry?	
M	September 19	Pure-tone audiometry	Katz et al., pp. 14-16 on biologic checks; Katz et al. chapter 3; Katz et al. chapters 24, 31, & 34: sections related to pure-tone testing; ASHA (2005) as reference
W	September 21	Pure-tone audiometry; Introduction to bone-conduction concepts	Katz et al. chapter 4
M	September 26	Bone-conduction testing	Katz et al. chapter 4
W	September 28	Audiogram interpretation	Katz et al. chapter 3, pp. 37-45
M	October 3	Audiogram interpretation	Katz et al. chapter 3, pp. 37-45
<b>W</b>	<b>October 5</b>	<b>Case history presentations</b> Tympanometry	Recorded lecture on tympanometry; Katz et al. chapter 9, pp. 137-149 (tympanometry)
M	October 10	Tympanometry; Acoustic reflex thresholds?	Recorded lecture on tympanometry; Katz et al. chapter 9, pp. 137-149 (tympanometry) Katz et al. chapter 10 (acoustic reflexes)
<b>W</b>	<b>October 12</b>	<b>Exam I</b>	
M	October 17	Acoustic reflex thresholds	Katz et al. chapter 10
W	October 19	Acoustic reflex thresholds	

M	October 24	Speech audiometry	Hornsby and Mueller (2013); McCreery (2013) Katz et al. chapter 5; additional required references on Canvas
W	October 26	Speech audiometry	*There will likely be 1 or 2 recorded lectures to view on speech audiometry.
M	October 31	Speech audiometry	
W	November 2	Speech audiometry	
M	November 7	Speech audiometry; Begin masking?	Katz et al. Chapter 6 (masking)
W	November 9	Masking: concepts & procedures	Katz et al. chapter 6; consider Yacullo textbook
<b>M</b>	<b>November 14</b>	<b>Exam II</b>	
W	November 16	Masking	Katz et al. chapter 6; consider Yacullo textbook
M	November 21	Masking	
W	November 23	Masking	
M	November 28	Masking	
W	November 30	Finish masking? Sharing results with patients	Clark and English (2004); Grenness et al. (2015)
M	December 5	Sharing results with patients; Begin test performance?	Clark and English (2004)
<b>W</b>	<b>December 7</b>	<b>Presentations on communicating results; Test performance?</b>	
M	December 12	Test performance for screening for HL and identifying retrocochlear HLs; referrals and communicating results to other professionals	ASHA (1997); Health News Review article
W	December 14	Test performance for screening for HL and identifying retrocochlear HLs; referrals and communicating results to other professionals	ASHA (1997); Health News Review article
<b>M</b>	<b>December 19 (tentative), time TBD</b>	<b>Final Exam</b>	