

UNIVERSITY OF WISCONSIN—STEVENS POINT
COMMUNICATION SCIENCES AND DISORDERS
Electroacoustics and Instrumentation Calibration (CSD 855), Fall 2021

Lab (UWSP): Wednesdays 3:00-5:00 pm; room 018
Professor: Rebecca Henning, Ph.D., CCC-A
Office: CPS 050
Phone: 715-346-2351
e-mail: rhenning@uwsp.edu
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 854 Electroacoustics and Instrumentation Calibration Lecture
- Undergraduate courses in hearing science, acoustics, and introductory audiometry are recommended, but not required.

Grading Scale:

UW – SP Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Percentage	100-92.00	91.99-90.00	89.99-88.00	87.99-82.00	81.99-80.00	79.99-78.00	77.99-72.00	71.99-70.00	69.99-68.00	67.99-60.00	<60

Required textbook, etc., is the same as for the CSD 854 lecture class.

Face Coverings:

- At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the [Disability and Assistive Technology Center](#) to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

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.

Attendance:

Lecture content will be complementary to labs. Students are therefore required to attend all **lectures** and **labs**.

Professionalism:

This class is part of your training for your professional career. Professional behavior and attitude are expected. This includes, but is not limited to, respect and tolerance of others, and acting responsibly and with integrity.

For examples of Codes of Ethics for Speech and Hearing Professionals, see:

American Academy of Audiology Code of Ethics

<http://www.audiology.org/resources/documentlibrary/Pages/codeofethics.aspx>

Or

American Speech-Language Hearing Association Code of Ethics

<http://www.asha.org/policy/ET2010-00309/>

Academic Misconduct:

Academic misconduct will not be tolerated, and the UW System Student Misconduct procedures will be followed for any instances of academic misconduct.

Definition of Academic Misconduct:

From the UWSP Handbook, Chapter UWSP 14, August 2016, pages 10 - 20

<http://www.uwsp.edu/AcadAff/Handbook/CH5-6%2011-12.pdf>

UWSP 14.03 Academic misconduct subject to disciplinary action.

(1) Academic misconduct is an act in which a student:

- (a) Seeks to claim credit for the work or efforts of another without authorization or citation;
- (b) Uses unauthorized materials or fabricated data in any academic exercise;
- (c) Forges or falsifies academic documents or records;
- (d) Intentionally impedes or damages the academic work of others;
- (e) Engages in conduct aimed at making false representation of a student's academic performance; or
- (f) Assists other students in any of these acts.

(2) Examples of academic misconduct include, but are not limited to: cheating on an examination; collaborating with others in work to be presented, contrary to the stated rules of the course; submitting a paper or assignment as one's own work when a part or all of the paper or assignment is the work of another; submitting a paper or assignment that contains ideas or research of others

without appropriately identifying the sources of those ideas; stealing examinations or course materials; submitting, if contrary to the rules of a course, work previously presented in another course; tampering with the laboratory experiment or computer program of another student; knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed by a person other than the student under whose name the work is submitted or performed.

Students with Disabilities:

If any student has a documented disability and requires accommodations in meeting these requirements, please see me as early as possible in the semester to discuss accommodations. Please note that I cannot apply accommodations retroactively to a class requirement that you've already completed. Thus, if you are unsure whether or not you need an accommodation, it is best to discuss the possibility with me beforehand, and we can then decide the best way to proceed.

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.

CSD 855 LAB SCHEDULE

****Five assessable labs are in bold; best four are worth 25% each for CSD 855 (100pts)****

SP Date	Topic
15-Sep	Sound level meters
22-Sep	Signal characterization and analysis using Praat
29-Sep	Permissible ambient noise levels
6-Oct	Revision for Exam 1 with Dr. Boothalingham in the distance room, 4:15-5:15; No separate lab meeting
13-Oct	No lab
20-Oct	Digital Signal Processing (DSP)
27-Oct	Snap circuits – fun with electricity Multimeters
3-Nov	Oscilloscopes
10-Nov	Calibration of tone audiometer
17-Nov	Calibration of short duration signals – implications for AEPs and OAEs
24-Nov	Thanksgiving week- no lab

1-Dec	Group presentations (combined Madison and SP session with Dr. Boothalingham in the distance room) – Know your instruments! No separate lab meeting
8-Dec	Revision for Exam 3 with Dr. Boothalingham in the distance room, 4:15-5:15; No separate lab meeting

KASA (Knowledge & Skills Acquisition)/CFCC (Council For Clinical Certification) 2020 Standards completed in this course.

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

Students in this course will demonstrate competency by obtaining a passing grade on pre- and post-class quizzes and final exam.

A5. Calibration and use of instrumentation according to manufacturers' specifications and accepted standards

Students in this course will demonstrate competency by obtaining a passing grade on pre- and post-class quizzes, final exam, and the lab component of the course by performing and submitting reports on calibration of audiometers.

A6. Standard safety precautions and cleaning/disinfection of equipment in accordance with facility-specific policies and manufacturers' instructions to control for infections/contagious diseases

Students in this course will demonstrate competency during all of the lab components of this course by including specific safety and cleaning procedures undertaken before operating instruments.

B4. Utilizing instrument(s) (i.e. sound-level meter, dosimeter, etc.) to determine ambient noise levels and providing strategies for reducing noise and reverberation time in educational, occupational, and other settings

Students in this course will demonstrate competency by obtaining a passing grade on pre- and post-class quizzes, final exam, and the lab component of the course by conducting noise level surveys in and around campus and submitting a report.

C7. 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 or multifrequency and multicomponent protocols, ipsilateral and contralateral acoustic reflex threshold measurements, acoustic reflex decay measurements, and Eustachian tube function.

Students in this course will demonstrate competency by obtaining a passing grade on pre- and post-class quizzes and final exam.

F12. Evaluating acoustics of classroom settings and providing recommendations for modifications

Students in this course will demonstrate competency by obtaining a passing grade on pre- and post-class quizzes, final exam, and the lab component of the course by conducting noise level surveys in and around campus and submitting a report.

Emergency Procedures:

“In the event of a medical emergency, call 911 or use red emergency phone. Offer assistance if trained and willing to do so. Guide emergency responders to victim.

In the event of a tornado warning, proceed to the lowest level interior room without window exposure. Avoid wide-span rooms and buildings.

In the event of a fire alarm, evacuate the building in a calm manner. Meet across the street in the parking lot of the Multi-Activity Center. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders.

See UW-Stevens Point Emergency Management Plan at www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.”