# COURSE SYLLABUS

### CSD 835: Research Methods, 3 s.h. University of Wisconsin Joint AuD Program Fall 2020 MW 1:00-2:15

# <u>Class format will vary:</u> There will be some online Zoom meetings at the regular class time, and also asynchronous recorded lectures.

Instructors:Dr. Rebecca Warner Henning, Professor of AudiologyOffice:050 CPSOffice Phone:715-346-2351e-mail:rhenning@uwsp.eduOffice Hours:Monday and Wednesday 2:30-3:30, and by appt. Office hours will also be available<br/>during the regular class time if we are not meeting (or if we are not meeting for the

during the regular class time if we are not meeting (or if we are not meeting for the entire class time) on that day. All office hours will be via Zoom. If you would like to arrange a phone call instead of meeting over Zoom, please let me know and we will arrange it.

**E-mail communication:** You are expected to check your school e-mail account at least once per weekday for any important class announcements. I typically reply to emails within two business days or sooner. I cannot guarantee that I will check email on evenings and weekends, so please plan ahead to avoid last-minute weekend or late-night "emergencies."

#### You are not permitted to turn in an assignment late because you are waiting for a reply from me.

If you've emailed me with reasonable advance notice (see later in this paragraph), but I haven't replied within the timeframe given above, there is a chance I did not receive your message. Please check your sent-mail to see if it was actually sent, and try re-sending it or sending another email. If you are emailing a question within 1-2 days or less of the assignment's deadline, then I may not have time to reply/answer before the deadline. (I will try to reply, but I often have multiple urgent matters that come up at the same time). If I do not reply before the deadline, then you should submit your assignment by the deadline, using your best judgment to answer your question.

#### **Required Readings:**

Orlikoff, Schiavetti, & Metz, Evaluating Research in Communication Disorders, 7th edition

Publication Manual of the American Psychological Association, 7<sup>th</sup> edition; can get by with the 6<sup>th</sup> edition if you also use the following source for 7<sup>th</sup> edition updates: <u>https://owl.purdue.edu/owl/research and citation/apa style/apa formatting and style guide/apa a changes 7th edition.html</u>.

Additional required readings will be available on the class Canvas site.

# **Optional Reading:**

Valente, M., Sarli, C.C., Valente, L.M., Amlani, A. M., Oeding, K, & Finnell, J., et al. (2011). *The Audiology Capstone: Research, Presentation, and Publication.* New York: Thieme Medical Publishers.

# **Course Description and Objectives:**

This is a research course designed for future clinical audiologists. Clinical audiologists must have competency in research methods for several purposes:

- Clinicians must be able to <u>critically evaluate and interpret research in order to use</u> <u>evidence-based practice.</u> This course will include activities and assessments that require you to critically appraise, interpret, and synthesize the literature, especially as it applies to clinical audiology practice.
- Clinicians should be prepared to participate on a research team or conduct clinical outcomes research. Many AuD clinical audiologists who work at academic medical centers, at universities, and for equipment or device manufacturers are involved in research teams. Your capstone project will help prepare you for this type of work, and this course will take you through the initial steps of planning your capstone project.

# **Course Format and Expectations:**

- This class will sometimes meet online via Zoom at the designated time (1:00-2:15 pm), and sometimes will have required asynchronous activities (typically recorded lectures) instead of or in addition to class meetings.
- When attending a synchronous class, you are expected to be attentive and engaged in the course.
  - If you expect you will be unable to attend or focus on a synchronous course session (for example, if you are ill, or caring for someone who is ill, or caring for a dependent, etc.), please email me ahead of time if possible (or if it's not possible to email me ahead of time, then email me as soon as you reasonably can) to request an excused absence from the class. Zoom meetings will be recorded unless prevented by technical problems, and you can watch the recording at a better time. Please also read the bullets below about excused absences.
  - Please do not try to attend a Zoom course while you are driving, or while you are doing anything else that requires your full attention for safety! Please plan your schedule so you can attend class from an environment that allows you to pay attention to class. See the information in the previous and following bullets about requesting an excused class absence if necessary.
  - Although excused absences may be necessary more often than usual due to the pandemic, I expect they will still be reserved for circumstances such as illness, caring for someone who is ill, personal or family emergency, etc. Otherwise, you should plan to attend class regularly, and excused absences should NOT be requested or used for routine or controllable circumstances like vacation, work, convenience, or errands.
- Although I highly recommend you participate with video whenever possible in any synchronous Zoom sessions, if your video will create repeated or disruptive distractions for others during the session, please disable your own video while the distraction is present, or for the entire session if necessary. It is NOT very distracting (so no need to disable video) if a family member or pet occasionally or calmly appears in the background; however it IS visually distracting if, for example, you keep getting up and down or moving around a lot, or if you move your camera a lot, or if your pet repeatedly jumps all over you throughout class, or if a family member keeps asking you questions. I understand these things may happen, but please disable your own video if they occur for longer than a brief time.

• In general, please mute your own audio unless you are speaking. There may be some occasions when, due to a faster pace of the discussion, it may be better to leave your audio un-muted, but most of the time it works best if everyone except the current speaker has their audio muted.

## Student Requirements:

## Personal situations and/or difficulty meeting course requirements:

If you are concerned that extenuating personal or family circumstances may affect your ability to meet these requirements, please discuss this with me (or with the graduate advisor or another faculty member on your home campus with whom you feel comfortable) so that we can be aware of the situation and figure out alternative arrangements if needed. It is far better to be proactive about discussing possible difficulties than to wait until your performance in the class has already suffered. I will not probe you for in-depth personal information if you would prefer not to share it; however, you will likely need to provide some type of documentation to at least one faculty member and/or to the disability services office on your home campus (if applicable to your situation) if alternative arrangements, such as extended deadlines or different exam dates, are needed.

## You must complete <u>all</u> of the following in order to pass this course.

#### Class Attendance:

You are responsible for attending synchronous class sessions (typically via Zoom) unless you discuss (an) excused absence(s) with me, preferably ahead of time if possible. <u>See the information earlier</u> in this syllabus under "Course format and expectations" for more information about absences. 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.

#### Written Assignments:

See the assignments information in Canvas for complete descriptions and grading information. <u>All</u> <u>assignments must be completed at a satisfactory level in order to pass the class</u>. <u>Even if you</u> <u>otherwise have a passing average in the class, if you have not satisfactorily completed all</u> <u>assignments, then you may not pass the class</u>. I will inform you if any of your assignments are not satisfactorily completed. If your performance on an assignment indicates that you have not met the required competency level (according to the course objectives and ASHA standards), you may be required to revise or re-do the assignment. <u>Depending on the situation, revisions or "re-dos" may or may not result in an improved grade</u>.

#### Exams:

There will be two exams in this class. If your performance on an exam indicates that you have not met the required competency level (according to the course objectives and ASHA standards), you may be required to complete a make-up assignment or exam in order to demonstrate competency.

# <u>Although a make-up assignment or exam may be used to demonstrate competency, it will not</u> <u>necessarily result in an improved grade on the exam.</u>

# Academic Misconduct:

If students are caught cheating or plagiarizing on any assignments, the UW System Student Misconduct procedures will be followed. Academic misconduct, depending on the severity, may result in a requirement to re-do or revise the assignment, or a reduced or failing grade on the assignment, or a failing grade in the class.

### **Students with Disabilities:**

If any student has a disability and requires reasonable accommodations to meet these requirements, you must contact the disability services office on your home campus to arrange for accommodations.

#### **Religious Observances:**

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

## Grading:

More information about assignments and grading procedures is provided in the separate description for each assignment, as well as in the general grading information document. You are responsible for understanding and following all of that information.

Assignments will receive the following weights:

Exam I:	18% of class grade
Exam II:	18% of class grade

#### Research project written assignments:

-Lit. search, research question, & variables	6% of class grade
-Peer review	10% of class grade
-Introduction next version	14% of class grade
-Final introduction	14% of class grade

Homework assignments in total:

20% of class grade

#### Grading Scale:

<b>UW – SP</b> Letter Grade	А	A-	B+	В	B-	C+	С	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
<b>UW –</b> Madison Letter Grade	A	A	-В	В	B	-C	С	C-	·D	D	F

# ASHA Standards:

This course fulfills the requirement of **ASHA CCC-A standard #A13**: Student demonstrates knowledge of "principles of research and the application of evidence-based practice (i.e., scientific evidence, clinical expertise, and client/patient perspectives) for accurate and effective clinical decision making." (<u>https://www.asha.org/Certification/2020-Audiology-Certification-Standards/</u>)

Method of Assessing Competency: Competency in this ASHA standard is assessed on all assignments and exams in this course; thus, there are multiple opportunities for students to demonstrate competency. If a student earns a passing grade on <u>every assignment and exam</u>, then the student will meet competency. If a student does not pass an assignment or an exam, then the instructor will review the student's work to determine which portions did not meet competency and to what extent. If the student does not demonstrate competency of that material via (a) passing grade(s) on (an)other class assignment(s) covering similar material, then the student will need to complete make-up or additional work to demonstrate competency in that material. A passing grade is a B or better. If a student fails to complete any of the tasks required for competency, 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.

# Learning Outcomes:

- 1. Students will determine the level(s) of evidence of sources used for evidence-based practice (EBP); students will interpret evidence to make EBP clinical decisions.
- 2. Students will demonstrate an understanding of the ethical issues involved in research with human subjects, by successfully completing the online CITI training program for their home campus.
- 3. Students will complete an introduction section of a research proposal.
- 4. Students will write clearly and effectively using the format and style of a scientific research paper, including the proper use and citation of resources.
- 5. Students will describe, explain, and apply the following concepts: variables, research strategy, research design, and quality of measurements at a level that is appropriate for: critically evaluating research; being an efficient consumer of research; completing their capstone project; and being a clinical member of a research team.
- 6. Students will demonstrate an understanding of statistics at an introductory level that is appropriate for interpreting the statistics of their capstone projects, and for interpreting statistical and clinical significance of published research.

# Instructor's Objectives:

In order to help you achieve the course objectives, 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 learning activities that are designed to facilitate your learning;
- 3) Explain difficult concepts to the best of my ability;
- 4) Be available during office hours and by appointment to answer questions or discuss the material;

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

# **Class Schedule**

The following is a **tentative schedule**, and the topics on each day are subject to change. **There will likely be** <u>more class meeting days</u> than what is listed here, and class meeting days are subject to change. EBP HW due dates may also change. I do not plan to change the due dates for any other assignments or exams.

Day	Date	Торіс	Textbook Reading
,		•	(On many days, there will be additional required
			readings posted in Canvas. You will often need to have
			the articles available to you in class in either electronic or
			paper format).
W	Sept. 2	Course goals;	Class meets
		introduction to	Orlikoff et al., chapter 1 through p. 21
		research & EBP cases	
W	Sept. 9	Starting a research	Orlikoff et al., chapter 1 pp. 21-31
		project: ideas and	
		finding sources;	
		research questions	
М	Sept. 14	EBP: creating	Class meets
		questions and finding	
		sources; difference	
		between research	
		and EBP in questions	
		& sources	
W	Sept. 16	Human subjects	EBP HW #1 due
		protection course	
		certificate due	Orlikoff et al., chapter 3 pp. 72-79, also chapter
			6 pp. 224-228
		Variables and	
		measurement scales	
М	Sept. 21	Finish variables and	EBP HW #2 due
		measurement scales?	Class meets
		Introduction:	Orlikoff et al., chapter 2
		research questions;	
		structure and APA	
		style; scientific writing	
		and avoiding	
		plagiarism	

w	Sept. 23	Anti-plagiarism	Required: Orlikoff et al., chapter 3
		assignment or pledge	<u>Supplementary:</u> Orlikoff et al., chapter 6, pp.
		due;	204-221
		Methods: research	
		strategies and design	
М	Sept. 28	Methods: research	
		strategies and design	
W	Sept. 30	Methods: research	Class meets
		strategies and design,	EBP HW #3 due
		including EBP levels of	
		evidence	
М	Oct. 5	Lit. search, research	Required: Orlikoff et al., chapter 4
		question, & variables	Supplementary: more info and examples are in
		assignment due	Orlikoff et al., chapter 5
		Methods: research	
		strategies and design	
W	Oct. 7	Methods: research	
		strategies and design	
М	Oct. 12	Methods: research	Class meets
		strategies and design	EBP HW #4 due
W	Oct. 14	Methods: quality of	Orlikoff et al., 228-264
		measures, reliability	
		and validity	
Μ	Oct. 19	Exam 1	
W	Oct. 21	Methods: quality of	
		measures	
М	Oct. 26	Methods: quality of	
		measures	
W	Oct. 28	Peer review day:	Class meets for a short time to discuss peer
		must have a	reviews
		complete version of	
		your introduction	
		ready for peer review	
		by 1pm	
м	Nov. 2	Peer reviews due to	Class meets
		the D2L dropbox	EBP HW #5 due
		Methods: data	
		collection and	
		recording procedures;	
		Evaluating EBP	
		evidence	

W	Nov. 4	Evaluating EBP	Class meets
		evidence;	EBP HW #6 due
		Results: null	
		hypotheses and	Orlikoff et al., chapter 7 pp. 273-293, 305-309;
		statistics	orikon et al., chapter 7 pp. 275 255, 565 565,
М	Nov. 9	Results: null	Orlikoff et al., chapter 7 pp. 301-305, 309-322;
IVI	100. 9	hypotheses, statistics,	Official et al., chapter 7 pp. 301-303, 303-322,
		and interpretation	
W	Nov. 11	Results: null	
vv	NOV. 11		
		hypotheses, statistics,	
м	Nov. 16	and interpretation Next version of	
IVI	NOV. 16		
		introduction due; Results: statistics and	
w	Nov. 18	interpretation Results: statistics and	Class meets
vv	NOV. 10		EBP HW #7 due
M	Nov. 23	interpretation Results: statistics and	
IVI	100.25	interpretation	Supplementary examples: Orlikoff et al., pp. 328-360
W	Nov. 25	Results: statistics and	528-500
vv	100.25	interpretation	
M	Nov. 30	Results: statistics and	
IVI	100.30	interpretation	
W	Dec. 2	Finish statistics and	Class meets
vv	Dec. 2	interpretation?	Orlikoff et al., chapter 8 pp. 368-376
			Orlikoff et al., chapter 9
		Discussion,	
		conclusions, and	
		applications, including	
		EBP	
М	Dec. 7	Discussion,	Class meets
		conclusions, and EBP	EBP HW #8 due
		applications	
W	Dec. 9	Final Introduction	
	_	due by 1 pm	
М	Dec. 14	Exam 2	
	1:00-2:30		
	pm		
L			