

Course Syllabus – Fall 2021



Course AUD 7338

Course Title Research in Audiology

Professor Carol Cokely, PhD

Term Fall 2021

Meetings Thursday 8:30am-11:15am
CRA 11.205

Professor's Contact Information

Office Phone 972-883-3125

Office Location CD, J208

Email Address cokely@utdallas.edu

Office Hours

Andie Zang

Teaching Assistant Andie.zang@utdallas.edu

Office hours: Fridays 9:00am-10:00am; or by appointment

COVID-19 Guidelines and Resources

The following guidelines and resources outline expectations for students and instructors of record during the Fall 2021 semester.

Instructor Resources

Classroom Safety and COVID-19 To help preserve the University's in-person learning environment, UT Dallas recommends the following:

Adhere to the University's [CDC Updated Guidelines](#) issued on July 30, 2021. All Comets are strongly encouraged to wear face coverings indoors regardless of vaccination status. Please note this represents a change in the [campus guidance](#) issued on May 20, 2021.

Accommodations for Students Who Miss Class for Reasons Unrelated to COVID-19

Individual faculty maintain their discretion on whether and how to accommodate student absences unrelated to COVID-19.

Accommodations for Students Who Must Isolate or Quarantine Due to COVID-19

To keep the UT Dallas community as safe as possible, the University requires students who test positive for COVID-19 or who are close contacts as determined by the campus contact tracing program to isolate or quarantine as applicable. Faculty will be notified by the Dean of Students' Office if a student in their class has been required to isolate (positive case) or quarantine (exposed). Faculty must make lectures available for those students during the period the students must isolate or quarantine. Faculty who

need assistance with providing these students access to course content can contact the eLearning Team at elearning@utdallas.edu. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against an isolated or quarantined student.

Verifying COVID-19 Isolations or Quarantines

Students need to self-report COVID-19 positive results or exposures via an [online form](#) so that university campus tracers can verify, record, and take necessary campus precautions. When faculty are notified by students rather than by the Dean of Students' Office that the students are isolating or quarantining, the faculty should remind students to self-report via the form; students should not attend class until cleared by campus tracers.

Vaccinations are widely available, free and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated. You are encouraged to [get a COVID-19 vaccine](#) and register your vaccination status through the [voluntary vaccine report form](#).

Proactive Community Testing remains an important part of the university's efforts to protect our community. Tests are fast and free. Please check the [Comets United](#) webpage for additional information.

[Student Safety](#) remains an important part of the UT Dallas' efforts to protect our community. All students will adhere to the Comet Commitment. Unvaccinated Comets will be expected to complete the mandatory [Required Daily Health Screening](#). Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the [Student Code of Conduct – UTSP5003](#). All students are encouraged to read the [Recommendations for Students Returning to Campus](#) issued on August 2, 2021.

Visit [Comets United webpage](#) to obtain the latest information on the University's guidance and resources for campus health and safety.

[Previous Campus Communications](#): a list of university announcements made in 2020-2021.

[Registrar's Intranet](#): please log in with your UTD NetID and password to access this site. Information that faculty need about grading, scheduling, and other essential aspects of our responsibilities related to teaching are made available and updated regularly in the Registrar's Intranet. This source of information can only be accessed by logging in with your UTD NetID and password. Many important faculty questions are answered here, and this is information that faculty members are expected to know and understand.

[FERPA Guidelines](#): you will be asked to log in before you access the FERPA Guidelines webpage on the Registrar's Intranet. If faculty have additional questions about FERPA guidance, please contact the Office of the Registrar at records@utdallas.edu for the proper student consent forms and further instructions.

[Honorlock](#): Online proctoring tool will be available for fully online courses and for classes with enrolled international students who are not yet in the United States.

[UT System Resources for Creating Accessible Course Content](#): designed to assist faculty with developing course content

Student Resources

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)")

COVID-19 Resources

[Comets United webpage](#): check frequently

[FAQ](#): check out the FAQs and reach out to your instructor or academic advisor if answers are not included

[Student Resources](#): a variety of resources are available to help students to obtain counseling, health care, and academic support.

General Course Information

Pre-requisites,
Co- Satisfactory completion of all Y1AuD requirements
requisites,
& other
restrictions

This course will present students the basic principles for evaluating research in audiology so they can become critical consumers of the field's research, a necessary precursor to doing **Course** research. Course structure includes didactic lecture, journal-article review, data-analysis, **Description** and small-group activities. Assessment of learning outcomes will, in part, be assessed by participation in class discussion.

Learning Outcomes

1. Students will identify factors underlying the importance of research for effective clinical practice;
2. Students will critically evaluate scientific research, including research questions, rationale, strategies and design, and threats to the reliability and validity;
3. Students will analyze and interpret research data, including central tendencies, causal relationships, group differences, effect size and power;
4. Students will evaluate and write the various components of a research article: introduction, method, results and discussion

Orlikoff, R.F., Schiavetti, N. and Metz, D.E. (2015). *Evaluating Research in Communication Disorders, 7th edition*. Pearson: Boston . [referred to in syllabus as OSM]

OR

Required Orlikoff, R.F., Schiavetti, N. and Metz, D.E. (2022). *Evaluating Research in Communication Texts & Disorders, 8th edition*. Pearson: Boston . [referred to in syllabus as OSM]
Materials

(The older version, 7th edition, is acceptable)

Urdan, T.C. (2017). *Statistics in Plain English, 4rd edition*. Routledge, Taylor & Francis Group: New York. [This text available on-line through UTD]
https://utdallas.primo.exlibrisgroup.com/permalink/01UT_DALLAS/5v0hp7/alma9927673312001421

Suggested Texts, Readings, & Materials

Academic Calendar

WEEK/ DATES	LECTURE/TOPIC	READING
Week 1 08/26	Review of course; Au.D. research requirements Lecture 1: Intro to Research Concepts	OSM Ch. 1; Wiley et al., 1995; [In Class Review: Cornelius & Owen-DeSchryver, 2008; Fried, 2006]

Week 2 09/02	Lecture 2: Research Question/Introduction Section; Intro to central tendencies & measures of dispersion	OSM Ch.'s 2 Urdan Ch.'s 2 & 3
Week 3 09/09 Class meets in CI time slot – 12 – 2:45pm	In-class Activity: Intro to Excel & Data Analysis Lecture 3: Central Tendencies & Measures of Dispersion; Descriptive Statistics; Research Strategies: Variable Schemes; Experimental/Descriptive Research;	Urdan 2, 3 OSM Ch.'s 3
Week 4 09/16	Lecture 4: Central Tendencies and Correlations (continued, in-class activity), Research Ethics	Urdan Ch. 1
Week 5 09/23	Lecture 5: Research Strategy; Research Design	OSM Ch.'s 3, 4, 5,
Week 6 09/30	Lecture 6: Method Section; Reliability & Validity Understanding research quality: Levels of Evidence; Evaluating research Information Technology: Library Services – Mr. Matthew Young	OSM Ch. 6 Wong, Ch. 1 and 2
Week 7 10/07	Lecture 7: Normal Distribution; Hypothesis Testing; Analyzing Relationships; r & r^2 Regression In-class Activity: Data Analysis	Urdan Ch. 4 OSM Ch.'s 7,8 Urdan Ch. 12, 13
Week 8 10/14	Lecture 8: Analyzing Differences; t-test; ANOVA	OSM Ch.'s 7 & 8 Urdan Ch.'s 8,9, 10,11
Week 9 10/21	Lecture 9: Analyzing Differences (continued) In-class Activity: Data Analysis	OSM Ch.'s 7, 8, 9, & 10 Urdan Ch.'s 8, 9, 10, 11,
Week 10 10/28	Lecture 10: Effect Size & Power Analysis; Results Section; Office of Research - TBD	OSM Ch.'s 7 & 9, additional readings
Week 11 11/04	Lecture 11: The Discussion Section In-class Activity: Data Analysis; Develop IRB the Peer Review Process	OSM Ch. 9, 10 Reading TBD
Week 12 11/11	Lecture 12: Non-parametric Analysis of Relationships & Differences; Systematic Review/Meta-Analysis; Chi Square In-class Activity: Peer-review	Reading TBD Wong & Hickson, Ch. 2 Urdan: Ch. 14
Week 13 11/18	Work on Data Analysis Project	
Week 14	Thanksgiving – No Class	
Week 15 12/02	Work on Data Analysis Project	
PROJECT DUE	<i>Take-home Data Analysis Project Due</i> Due no later than December 9, 12 a.m.	

Examination: Take-home examination (300-points) : **Due Monday, October 18 by 12 a.m.**

Assignments

Contribution/Completion- in class assignments (Total 50 points):

- **Human Subjects Protection Training** due Sept 13 by 12 a.m. (contributes to a total of 50-point completion)

The University of Texas at Dallas Institutional Review Board (IRB) requires all individuals working with human subjects in research complete an instructional program before the IRB will review an application. This policy reflects UT Dallas's commitment to the protection of the rights and welfare of human subjects in research. The required training must be completed through an online tutorial, accessed by logging into eLearning and choosing "Human Subjects Protection Training" under "My Organizations"

- **Completion of Expedited IRB:** due by November 4 – in class
- **Peer review of journal article** due by November 11 – in class

Written research article:

– 300 points

Write paper as if it is a submission for a journal article, using APA format. **Use checklists in OSM** as guides to required content for each section noted below.

Students may seek input from research mentor regarding content; however, mentor should not edit work. The due dates provided below are the initial due dates and these must be turned in via e-learning – Turn-it-in- Assignments. CREDIT WILL NOT BE GIVEN IF ONLY FINAL VERSION submitted. Final, revised paper is due before December 13, 2021.

Introduction [100 points] – First draft
12 am

due Oct 4 by

Methods First draft (NOT including planned stat. analysis) [100 points] due Oct 25 by 12 am

Planned statistical analysis [50 points] -First Draft
12 am

due Nov 1 by

This portion should include a list of appropriate descriptive and inferential statistics. For each statistic, be sure to clarify which variables are included and its purpose relative to your research question(s). YOU DO NOT NEED TO SUPPLY DATA.

Discussion [50 points]- First Draft
am

due Nov 8 by 12

This portion should provide summary of potential threats to internal and external validity relative to the decisions you've made in your research questions, rationale, methods, and planned analysis.

FINAL Revised paper [total 300 points – replaces draft-point values] due by Nov 29 by 12 am
Turn in complete-final paper. The first drafts (with comments) must be attached. Total points will reflect your final product.

Take-Home Analysis of Research/Data – 350 points am

due by Dec 13 by 12

Students will be provided with a research problem and data set. Work is to be completed independently, and data analysis should be accurate and thorough. Students shall draw reasonable conclusions supported by data analysis. The Results and Discussion shall be provided in journal-article format APA style. Class time will be

Discussion shall be provided in journal article format, APA style. Class time will be devoted to this project.

(25 points) Provide the research question(s) as they might appear in the final paragraph of a journal article *Introduction*. [Limit 1 paragraph]

(75 points) Provide a description of the methods as they might appear in a *Methods* section of a journal article using *at least* the following subheadings: Participants; Procedures. [Limit: 2 pages, double-spaced]

(75 points) Illustrate the data in ways that contribute to the understanding of the data as they might appear in *Results* section of a journal article. Be sure to appropriately label all figure, graphs, and tables, and include legends, and make sure each illustration provides useful and novel information. (Minimum: 2 figures, 1 table).

(25 points) Complete data analyses that provide information about important group differences and relationships among variables:
Provide appropriate annotation to data analysis so it's clear what you have done. For each analysis you include, the annotation should include a 1-2 sentence summary that details the test used, the outcome (hypotheses decision), and how it is important relative to your research question(s).

(100 points) Provide a written summary of the data, the analyses, interpretation from the researcher's perspective, and include illustrations appropriately placed as they might appear in a Results and Discussion section of a journal article. Be sure to include descriptive, inferential and effect-size statistics using appropriate reporting format. (Limit 4 pages double spaced).

(50 points) Written from the perspective a peer reviewer, provide a summary that addresses strengths of the project and potential threats to the validity of the work. (Limit 1 page double spaced)

STRONG SUGGESTION: Use existing peer-reviewed journal articles and OSM Evaluation Sheet (Appendix A) as content guides. Also review the "Writing it Up" sections of the Urdan text. Deficiencies in writing (spelling, organization and grammar) will be reflected in deduction of up to 50 points.

Grading Policy

Grading Policy – total 1000 points

Take-home examination	300
Written article, APA format	300
Take home research/data analysis	350
Completed: Human Subjects training, completed IRB, peer Review	50

Class Materials	The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct .
--	UT Dallas will follow the public health and safety guidelines put forth by the Centers for Disease Control and Prevention (CDC), the Texas Department of State Health Services (DSHS), and local public health agencies that are in effect at that time during the Fall 2021 semester to the extent allowed by state governance. Texas Governor Greg Abbott's Executive Order GA-38 prohibits us from mandating vaccines and face coverings for UT Dallas employees.

Classroom Conduct Requirements Related to Public Health Measures	students, and members of the public on campus. However, we strongly encourage all Comets to get vaccinated and wear face coverings as recommended by the CDC. Check the Comets United: Latest Updates webpage for the latest guidance on the University's public health measures. Comets are expected to carry out Student Safety protocols in adherence to the Comet Commitment. Unvaccinated Comets will be expected to complete the Required Daily Health Screening . Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the Student Code of Conduct – UTSP5003 .
Class Attendance	The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against a quarantined student.
Class Participation	Regular class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the Student Code of Conduct .
Class Recordings	<p>Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.</p> <p>NOTE: if the instructor records any part of the course, then the instructor will need to add the following syllabus statement:</p> <p>The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.</p>
Comet Creed	<p><i>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:</i></p> <p><i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i></p>
Academic Support Resources	<p>The information contained in the following link lists the University's academic support resources for all students.</p> <p>Please go to http://go.utdallas.edu/academic-support-resources.</p>
UT Dallas Syllabus Policies and Procedures	The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the sections regarding the credit/no credit grading option and withdrawal from class.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.