



WAYNE STATE

College of Education

EER 7640 Fundamentals of Quantitative Research

COURSE INFORMATION

Section:

Semester/Year: Winter 2024

Division: EER

Class location: online

Class day/time: asynchronous

Credit hours: 3

Class type: Online/asynchronous

FACULTY CONTACT INFORMATION

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Accessibility

Accessibility provides helpful pathways for using materials and learning opportunities for all WSU students, including international students, students with disabilities, and LGBTQ+ students. Free text to speech software, screen readers, and learning support services may be available.

[Student Disability Services](#) can offer assistance with accessibility software and options. Here are more resources which may also be helpful.

Accessibility: <https://wayne.edu/accessibility>

International Students: <https://oiss.wayne.edu>

Student Disability Services: <https://studentdisability.wayne.edu>

LGBTQ+ Resources: <https://pride.wayne.edu/student-resources>

Course Description

Basic skills in educational research; nomenclature, problem, theory, hypothesis; formulation; bibliographical and documentary techniques; retrieval systems; development of data gathering instrumentation; computer orientation and research; uses; collection and organization of data; manuscript development, report writing; techniques, methodologies for descriptive and experimental inquiry.

Course Goal:

1. Utilize research methods in managing the common problems that arise in the practice of education.
2. Gain knowledge of research which will permit objective decisions concerning curriculum, methods, and administration.
3. Critically and realistically evaluate the findings and reports in research literature.
4. Develop an understanding of research processes that will facilitate willing and active cooperation in needed experimentation.

Method of Instruction: Lecture (online/asynchronous)

Course Materials

Required:

Introductory Statistics Using SPSS by Knapp, Herschel
#9781506341002

Publication Manual of the American Psychological Association: 7th Ed. (2020)

Access to SPSS statistic program

<https://tech.wayne.edu/kb/help-support/cit-help-desk/284923>

Course Outcome Alignment with Assignments

By the end of this course, learners will be able to:

- a) Research and develop a literature review
- b) Discuss research principles and ethics
- c) Utilize appropriate samples and instruments
- d) Analyze survey instruments for validity and reliability
- e) Discern the most relevant research method and associated analytics for a research question
- f) Document, report, and disseminate findings
- g) Critically analyze research articles

Grading System

Graduate Grading Scale

A	93-100%
A-	90-92%
B+	88-89%
B	84-87%
B-	80-83%
C+	78-79%
C	74-77%
F	<74%

Assignment/Exam	Percentage
Assignments	70
Research Proposal	30
TOTALS	100%

Late Policy

Every assignment is due by midnight ET on the due date specified in the syllabus and on Canvas. Any assignment that is submitted late without PRIOR approval from the instructor will be marked down 10% per additional day past the due date until the assignment is submitted. For example, if an assignment worth 10 points is submitted two days late, the most the student will be eligible to earn on that assignment is 8 points.

Assignments submitted one week or more after the due date specified will not be graded and receive a 0.

Students who seek prior approval to submit an assignment late will not automatically receive approval, but the instructor will work to be fair and accommodating with students who seek prior approval.

Religious Holidays

Because of the extraordinary variety of religious affiliations of the University student body and staff, the Academic Calendar makes no provisions for religious holidays. However, it is University policy to respect the faith and religious obligations of the individual. Students with classes or examinations that conflict with their religious observances are expected to notify their instructors well in advance so that mutually agreeable alternatives may be worked out.

Student Disabilities Services

If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. However, during the fall 2020 semester SDS will only be delivering services remotely. The SDS telephone number is 313-577-1851 (main number) or 313-202- 4216 for videophone use. Please continue to use these numbers as SDS is still receiving calls. Once you have your accommodations in place, I will be glad to meet with you privately during my office hours to discuss your special needs. Student Disability Services' mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University. You can learn more about the disability office at www.studentdisability.wayne.edu

To register with Student Disability Services, complete the online registration form at: https://wayne-accommodate.symlicity.com/public_accommodation

Counseling and Psychological Services (CAPS)

It is quite common for college students to experience mental health challenges, such as stress, anxiety and depression that interfere with academic performance and negatively impact daily life. Help is available for any currently enrolled WSU student who is struggling with a mental health difficulty, at WSU Counseling and Psychological Services (caps.wayne.edu; 313 577-3398). Other options, for students and nonstudents, include the Counseling and Testing Center, and the Counseling Psychology Training Clinic, in the WSU College of Education (<https://education.wayne.edu/counseling-clinic>). *Services at all three clinics are free and confidential. Remember that getting help, before stress reaches a crisis point, is a smart and courageous thing to do – for yourself, and for those you care about.* Also, know that the WSU Police Department (313 577-2222) has personnel trained to respond sensitively to mental health emergencies at all hours.

Sexual Misconduct and Title IX

Sexual Misconduct and Mandatory Reporting

Every Warrior has the right to live, learn, and work at WSU – free from Harassment or Discrimination.

Any member of the WSU Community that is impacted by sexual misconduct has the right to report to the University (i.e. Responsible Employee or Title IX Coordinator), to law enforcement (i.e. WSUPD or other jurisdiction), to both, or to neither. Every Warrior is encouraged to make the reporting decision that is right for them.

Please be advised: Most faculty and staff are considered “**Responsible Employees**” and are **required to report** information they receive about incidents of sexual misconduct (including sexual assault, intimate partner violence, sexual harassment, and stalking) to appropriate authorities when it involves WSU students, faculty, or staff.

Free, confidential, and anonymous support is available 24 hours a day, seven days a week to survivors, their friends, and their family through the [Rape, Abuse & Incest National Network \(RAINN\)](#). Call [1-800- 656-4673](tel:1-800-656-4673) or [Chat](#) online with a professional support specialist.

Please visit TitleIX.wayne.edu to learn more about resources and support on campus and in the local community.

Options for Reporting Sexual Misconduct

Any member of the WSU Community that is impacted by sexual misconduct has the right to report to the University (i.e. Responsible Employee or Title IX Coordinator), to law enforcement (i.e. WSUPD or other jurisdiction), to both, or to neither. Every Warrior is encouraged to make the reporting decision that is right for them.

Reporting to the University

[The Title IX Office](#) is available to consult with individuals impacted by sexual violence or discrimination regarding resource referrals, supportive and protective measures, and reporting and resolution options. Where WSU has jurisdiction, the affected party may request an administrative investigation by the University.

Phone: 313-577-9999

Email: TitleIX@wayne.edu

Reporting to Law Enforcement

[The Wayne State University Police Department](#) is available 24/7 to assist individuals reporting criminal activity or concerns on or near campus. Report off-campus incidents to the appropriate police jurisdiction. In the event of an emergency or imminent threat, reporting to the police is highly encouraged.

Phone: 313-577-2222

Every Warrior has the right to live, learn, and work at WSU – free from Harassment or Discrimination.

If you or someone you know has been impacted by sexual violence or discrimination, please visit TitleIX.wayne.edu to learn more about resources and support on campus and in the local community.

Academic Dishonesty – Plagiarism and Cheating

Academic misconduct is any activity that tends to compromise the academic integrity of the institution or undermine the education process. Examples of academic misconduct include:

- Plagiarism: To take and use another's words or ideas as your own without appropriate referencing or citation.

- College of Education policy on plagiarism: The College of Education has a “zero tolerance” approach to plagiarism and other forms of academic dishonesty. Plagiarism includes copying material (any more than 5 consecutive words) from outside texts or presenting outside information as if it were your own by not crediting authors through citations. It can be deliberate or unintended. Students are advised to think carefully and thoroughly, ask for help from instructors if it is needed, and make smart decisions about their academic work.
- Cheating: Intentionally using or attempting to use or intentionally providing unauthorized materials, information or assistance in any academic exercise. This includes copying from another student's test paper, allowing another student to copy from your test, using unauthorized material during an exam and submitting a term paper for a current class that has been submitted in a past class without appropriate permission.
- Fabrication: Intentional or unauthorized falsification or invention of any information or citation, such as knowingly attributing citations to the wrong source or listing a fake reference in the paper or bibliography. Other: Selling, buying or stealing all or part of a test or term paper, unauthorized use of resources, enlisting in the assistance of a substitute when taking exams, destroying another's work, threatening or exploiting students or instructors, or any other violation of course rules as contained in the course syllabus or other written information.

Such activity may result in failure of a specific assignment, an entire course, or, if flagrant, dismissal from Wayne State University. <https://dosowayne.edu/conduct/academic-misconduct>

Course Drops and Withdrawals

In the first two weeks of the (full) term, students can drop this class and receive 100% tuition and course fee cancellation. After the end of the second week there is no tuition or fee cancellation. Students who wish to withdraw from the class can initiate a withdrawal request on Academica. You will receive a transcript notation of WP (passing), WF (failing), or WN (no graded work) at the time of withdrawal. No withdrawals can be initiated after the end of the tenth week. Students enrolled in the tenth week and beyond will receive a grade. Because withdrawing from courses may have negative academic and financial consequences, students considering course withdrawal should make sure they fully understand all the consequences before taking this step. More information on this can be found at: http://reg.wayne.edu/Withdrawing_From_a_Course.php

Student Services

- The Academic Success Center (1600 Undergraduate Library) assists students with content in select courses and in strengthening study skills. Visit www.success.wayne.edu for schedules and information on study skills workshops, tutoring and supplemental instruction (primarily in 1000 and 2000 level courses).
- The Writing Research and Technology Zone is located on the 2nd floor of the Undergraduate Library and provides individual tutoring consultations free of charge. Visit <http://clasweb.clas.wayne.edu/writing> to obtain information on tutors, appointments, and the type of help they can provide.
- Library research assistance: Working on a research assignment, paper or project? Trying to figure out how to collect, organize and cite your sources? Wayne State librarians provide on-campus or online personalized help. Contact them at <http://library.wayne.edu/consult>

Technology Access and Support

Because this is a WEB course, all or part of your instruction will require reliable hardware including a desktop or laptop computer with reliable internet access, camera, microphone, and speakers, as well as appropriate software including a web browser, Microsoft Office ([available at no charge to students](#)), and the Canvas app (also free to students). For

assistance with Canvas, see [C&IT's Student Intro to Canvas Course](#) and [Comprehensive Student Guide](#). For assistance with any of these technology issues, contact [C&IT Helpdesk](#) M-F from 7:30 am to 8 pm at 313-577-4357 or helpdesk@wayne.edu.

Students who lack adequate hardware or reliable internet access should email doso@wayne.edu or call 313-577-1010 for assistance. Students on campus also have access to equipment through University Libraries. See [Equipment Checkout Policy and Procedures](#). The University Libraries also have [computer labs](#) in several campus locations.

Support for Online Learning

"[The Effective Online Learner](#)" is a self-paced Canvas course to bolster the skills needed for remote and online learning. **WSU's** [Learn Anywhere](#) webpage provides resources and tips for taking online courses. [WSU's Academic Success Center](#) offers resources for improving study skills, building study groups, and similar activities. The [Study Skills Academy](#) offers [free study skills counseling](#) and other services

Course Schedule

Research articles will very likely be added to the syllabus (and related announcements made) throughout the semester.

Definitions:

Asynchronous: you work through the modules on your own (let me know if you need assistance or have questions, etc.)

Weeks begin on Monday and end on Sunday.

All assignments are due by **midnight Eastern time.**

Date (Week)	Topic(s)	Preparation	Exercises and Point Value	Due Dates
Week 1 Jan. 8-14	Course introduction Research Principles	Read: Ch. 1	Exercise 1.8 (5) Exercise 1.10 (5)	Jan. 16
Week 2 Jan. 15-21	Sampling	Read: Ch. 2	Exercise 2.8 (6) Exercise 2.10 (6)	Jan. 22
Week 3 Jan. 22-28	Working in SPSS	Read: Ch. 3	Exercise 3.8 (6) Exercise 3.10 (6)	Jan. 29
Week 4 Jan. 29-Feb. 4	Descriptive Statistics	Read: Ch. 4	Exercise 4.8 (20) Exercise 4.10 (20)	Feb. 5
Week 5 Feb. 5-11	<i>T</i> Test and Man-Whitney <i>U</i> Test	Read: Ch. 5	Exercise 5.2A (40) Exercise 5.10A (40)	Feb. 12
Week 6 Feb. 12-18	ANOVA and Kruskal-Wallis Test	Read: Ch. 6	Exercise 6.2A (40) Exercise 6.10A (40)	Feb. 19
Week 7 Feb. 19-25	Paired <i>t</i> Test and Wilcoxon Test	Read: Ch. 7	Exercise 7.8A (40) Exercise 7.10A (40)	Feb. 26
Week 8 Feb. 26- March 3	Correlation and Regression – Pearson and Spearman	Read: Ch. 8	Exercise 8.2 A (40) Exercise 8.10 A (40)	March 4
Week 9 March 4-10	Chi-Square	Read: Ch. 9	Exercise 9.4A (40) Exercise 9.10 A (40)	March 18
Week 10 March 11-17	SPRING BREAK			
Week 11 March 18-24	Supplemental SPSS Operations	Read: Ch. 10	Exercise 10.4 A (40) Exercise 10.10 (20)	March 25
Week 12 March 25-31	Preparing Research Proposals and Reports		Continue working on the Research Proposal	
Week 13 April 1-7			Research Proposal Draft (This is optional. No points for this but it will help you on the final submission!)	April 8

Date (Week)	Topic(s)	Preparation	Exercises and Point Value	Due Dates
Week 14 April 8-14			Continue working on the Research Proposal	
Week 15 April 15-21	Research Proposal Submission Due this week		Research Proposal (Final)	April 22

Privacy and Confidentiality Rules

The University's shift to remote teaching has created some new privacy and confidentiality concerns. Recordings of classes taught via Zoom may capture students saying things they consider embarrassing. Zoom recordings often include views of the inside of students' residences, which many students consider to be private. Students have the right to be confident that video, audio, and still images of class sessions will not be viewed by anyone other than those who are enrolled in the course. To preserve the integrity of the course when it is taught in future semesters, the contents of quizzes and other class materials must be kept confidential.

For these reasons, every student enrolled in the course must agree to the following set of rules aimed at protecting privacy and confidentiality.

If you feel that you need to make your own recordings of class sessions, please contact me so we can discuss your situation individually.

* * *

I agree that I will adhere to the following rules in connection with my participation in [identify professor, course, and semester]:

- I will not record the audio or video of any online class session.
- I will not take a screenshot of any screen displayed as part of any online class session.
- I will not share any audio, video, or still image from an online class session with anyone who is not a student enrolled in the class.
- I will not share any material from quizzes [add other relevant materials here] with anyone who is not a student enrolled in the class.
- I will not share any recording of a class session made by the professor with any other person.

Signed: _____