



**North Carolina Central University**  
**EDGR 5910 0L1**  
**Introduction to Statistical Methods in Education**  
**CRN: 44382 3 Credit Hours**  
**Fall 2023**

### Instructor Information

Name: Dr. Wynetta Lee, Professor  
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Virtual Office hours: Mondays, 5:00pm or by appointment

Office hours will be held weekly on Mondays at 5:00pm, beginning on August 14, 2023. See the last page of the syllabus for the Zoom link to access virtual office hours. You can also make an appointment, in advance, to meet with me. Make an appointment by emailing your meeting request to me, including preferred days/times for an appointment. **When contacting me via email, for any reason, put “EDGR 5910:” and then describe the nature of your email in the subject line.** For example, the subject line should be: “EDGR5910-Question about Final Paper.” The content of your message should include your inquiry, your email address, your preferred phone number, and several times you are available. If you contact me by phone, leave a CLEAR message regarding the nature of your call, your preferred phone number, and several times you are available for me to return your call. Allow approximately 48 hours for a response. Note that my response time will be longer Friday through Sunday or over a holiday.

### COVID 19 Procedures

North Carolina Central University (“NCCU”) released the [“Protecting the Nest: Guidelines for Returning to North Carolina Central University”](#) and [“NCCU Operations, Recovery and Continuity Plan”](#) in May and June 2020. These documents provide detailed information on the University’s plan to resume instruction in the fall 2020 semester. Both are aligned with guidance received from the University of North Carolina System and Executive Orders issued by the State of North Carolina and outline protocols for which compliance is required to ensure the health and safety of all NCCU faculty, staff, and students.

Students are required to wear a face mask or face covering in the classroom, other in-person instructional settings and elsewhere in public, both inside and outside, throughout the campus.

To assist you with understanding your obligation to comply with the requirement to wear a face mask or face covering in the classroom or laboratory and the consequence of non-compliance, note the following statement:

**COVID-19 Health and Safety Requirement for Wearing a Face Mask or Other Face Covering in the Classroom or Other Instructional Setting:**

To create and preserve a classroom atmosphere, whether in-person or online, that optimizes teaching and learning, all participants share a responsibility in creating a civil and nondisruptive forum. At all times, students are expected to continuously conduct themselves in a manner that does not disrupt teaching or learning. Your responsibilities as a member of the North Carolina Central University community are outlined in the [NCCU Student Code of Conduct](#) (Code). The [Code](#) outlines disciplinary procedures, behaviors that are subject to disciplinary action, hearing procedures and the consequences that result from violating the [Code](#).

In addition to community standards to which all students are accountable, the [Code](#) outlines the requirement to abide by all other rules, regulations, policies, procedures and guidelines issued by the institution. In consideration of the University's commitment to maintain healthy and safe learning environments during the COVID-19 pandemic, the University has issued the [Operations, Recovery and Continuity](#) plan. The [plan](#) highlights and details the University's preparations to safely open for the Fall 2020 semester and includes behavioral standards for in class instruction, such as physical distancing, use of face coverings, and hand hygiene. However, in light of the ever-changing nature of the COVID-19 pandemic, the plan is subject to change.

**Please be advised that face coverings are required while on campus and during in-person instruction as per NCCU's guidelines, and the State of North Carolina's Executive Order 147. The few exceptions to this requirement can be found in the [Operations, Recovery and Continuity](#) plan.**

Any action by a student that interferes with the education of another student or interferes with the operations of the University in carrying out its responsibility to provide a safe and conducive educational environment will be considered a violation of the [NCCU Student Code of Conduct](#).

### Course Description

Introduction to Statistical Methods in Education is a graduate level course in applied statistics relevant to education and social sciences. The course topics will include descriptive statistics, inferential statistics, and research designs as well as data analysis using inferential statistical procedures. Students will compile, analyze, and interpret data in a culminating final paper. The course will prepare Students to use statistical tools for making data-based decisions.

### Required Textbooks & Materials

There is one set of required materials, two recommended texts, and supplemental materials. These materials will guide your learning journey regarding statistical applications and will

document your progress over the semester. The required materials are in MindTap, which is a Cengage product. The cost for the MindTap bundle was included in the cost of registering for this course. Communication is essential if research is to be used and there is an expected writing style for educational and social science researchers. Therefore, the recommended texts will help you to effectively communicate with social scientists and others who will read your work.

### ***Required Materials***

**Authors:** Fredrick J. Gravetter & Larry B. Wallnau.

**Title:** Statistics for The Behavioral Sciences 10<sup>th</sup> ed. (Gravetter/Wallnau - MindTap Psychology, 1 term (6 months) Printed Access Card for Gravetter/Wallnau's Statistics for The Behavioral Sciences, 10th) **ISBN:** 9781337098120.

**Hardware:** Because this is a web-based course, you will need the following in order to participate:

- A computer with reliable Internet access
- A webcam. The webcam may be built into your computer/laptop or can be purchased separately. We recommend a webcam with a built-in microphone (Optional).
- Software: The projects for this class may require you to download and install some free applications from the Internet. You must have the ability to download and install software.

### ***Recommended Materials***

**Author:** American Psychological Association (APA)

**Title:** Publication Manual of the American Psychological Association

**ISBN:** 9781433805615

**Author:** Cheryl Glenn, Loretta Gray

**Title:** Hodges Harbrace Handbook (w/out Access Code)

**ISBN:** 9781111346706

### ***Supplemental Materials***

Some of the course content might include links to videos and websites that will enhance your learning. These materials will supplement and support (***not supplant***) your readings, reflection, and comprehension of statistical concepts. Other reading materials (articles, reports, etc.) could be provided throughout the semester.

## Course Learning Objectives

### Course Outcomes

This course is designed to introduce students to the theory and application of statistical procedures in education clustered around the following topics: (1) descriptive statistics such as scales of measurement, central tendency, and standard deviation, (2) sampling, probability, and sampling distributions (3) inferential statistics, tests of significance (z, t, r, Chi-square). Upon completing the course, students are expected to be able to calculate statistical tests, describe the statistical concepts examined in the course, and design and interpret research studies within their professional fields.

### Student Learning Outcomes

Upon completing this course, students will be able to

1. Describe the meaning of major statistical concepts both verbally and computationally.
2. Compute frequencies, central tendency, variability, probability, z-score, t-tests (the one sample, two independent samples, and two related samples), correlations, and chi-square.
3. Conduct a hypothesis test using appropriate statistical procedures and understand the limitations of significance testing.
4. Align research questions with the appropriate statistical procedure.
5. Analyze data using the computer software and make data-based decisions.

## Course Methodology

This course is an asynchronous 100% online, learning-centered course where each student is expected to be meaningfully involved in their own learning, and the learning of their classmates, by fostering the intellectual climate through **deep reflection, scholarly discourse** and the **timely submission of course requirements** that demonstrate the highest level of Eagle Excellence. Students are expected to complete all reading assignments, participate in discussion board forums, and complete all assignments by due dates as indicated in the course outline. Carefully read this syllabus and the course schedule. **The right to amend the syllabus is reserved.** These documents will give you the information you need to know about the course. Contact the course instructor with any questions or concerns at any time. Most learning opportunities can be completed at your convenience, but some will be at a scheduled time for all students to participate simultaneously. **Again, read the syllabus and course schedule carefully.**

The course is delivered through NCCU's Canvas system and students are expected to complete and submit all assignments in Canvas. **NOTE: assignments will not be accepted via email.** Students are required to log into Canvas weekly to document course attendance/participation

and to fulfill various assignments during the semester (e.g., participate in discussions, submit assignments, obtain handouts, etc.). Canvas is also the portal to MindTap, which is where your required e-text, quizzes, and learning materials/tools are. Canvas is accessible through MyEOL. Your username and password for Canvas and NCCU email are the same. If you have questions about your Canvas account, call the IT department at 919-530-7676.

## Course Communication Policies

Please, understand that your professor *is not* on-call 24/7. You can expect responses to your inquiries based on the following guidelines:

- a) You should check your NCCU email daily to stay current and avoid missing any important announcements or other correspondence. Missing important communications may jeopardize your success in the course.
- b) Before emailing or calling your instructor with a question, please consult the Syllabus, Canvas site, and other available resources. You will find many answers among the sources provided, which can save your valuable time. Note that emails or phone messages that ask questions that can be answered by reading the available resources will result in a response conveying as much.
- c) Emails to the instructor usually will be answered in 48 business hours; emails are not likely to be answered during the weekend or on holidays. Please do not expect your instructor to return your email at 10 p.m.; he or she will be available then. Be patient and be assured that your instructor will respond to your inquiries.
- d) Emails must be sent using your NCCU email account (associated with Canvas). Emails that are sent using non-NCCU accounts are automatically funneled by the email program into the junk folder.
- e) **Emails must contain at least the following information: your name, which class you are in (EDGR 5910), and the subject of your message in the subject line of the email (e.g. EDGR 5910 Question about Homework Assignment). Emails that do not contain the above identifying information will have a delayed response. It also may be deemed spam/junk and may be inadvertently deleted.**
- f) The easiest and most efficient way to contact me is email.
- g) All course assignments *must* be submitted through Canvas. Email submissions will not be accepted and **will not likely be included in the calculation of your grade.**
- h) Any inquiries/issues related to Canvas should be addressed to the NCCU [Information Technology Services \(ITS\)](#). Make sure to CC me in your email.

## Technical Support

Students must have a working knowledge of Canvas. Students encountering computer issues should contact [Information Technology Services \(ITS\)](#). You can also submit a [Help request Ticket](#) and if you are dealing with Canvas-related difficulties, contact the Canvas Office at 919-530-7676.

## Learning Modules & Content Organization

The course is organized using a modular structure, based on chapter topics. Several modules are open at varying times during the semester so that students can work at their own pace. Note that a week runs from Monday through Sunday and additional materials could be added to a week's module that you might not see if you work ahead of schedule. **All assignments related to a module are due by 11:30pm on Sunday nights unless otherwise noted.** Specific due date information can be found in the course calendar below. Some weeks may contain more than one module. **The instructor reserves the right to edit due dates or alter assignments based on extenuating semester events** (e.g., weather that impacts student internet access for several days) **or to enhance student learning.** Each module includes all the tasks that need to be completed for each chapter's topic (access to MindTap, tutorials, PowerPoints, quizzes, etc.).

## Assignments

Assignments that are to be submitted during the semester (i.e., module assignments, quizzes, capstone paper, etc.) are posted in the corresponding week's schedule. Once you have completed the task, you will submit your gradable assignments, which will be posted to the Canvas gradebook. The quiz scores will be submitted to the Canvas grade center through MindTap. If you have any trouble downloading documents or video lessons, please contact your instructor as soon as possible.

**Chapter Quizzes (130 points)** – Students must complete a quiz on each chapter. We will use *Mindtap*, an online teaching/learning tool, to facilitate digital submission and objective grading. Each assignment will remain open for the week (Monday–Sunday). Students will receive immediate feedback after each quiz. **No late submissions will be accepted.** Students will earn a “0” on a quiz that is not attempted at all or will receive partial credit for a quiz that is started but not completed. ***Do not wait until the last day of the week (Sunday) to start your quiz because you will be locked out of the quiz when the calendar changes. You can also be locked out of the quiz if you take too long to finish the quiz.*** Be prepared to complete the quiz when you start it. *Only under documented extenuating circumstances will the instructor re-open the homework after posted due dates.*

- Each chapter quiz/problem set is worth 10 points, totaling 150 points. The 2 lowest grades will be dropped, for a total of 130 points.

**Attendance and Participation (140 points)** – The instructor will post a set of discussion questions in Canvas in Weeks 1-15. Students’ reply to these weekly discussion questions will be counted as the course attendance and participation grade. Attendance in this online class requires students to post assignments on their due dates and to participate in weekly discussions on Canvas. Each discussion post is worth up to 10 points and students will lose two points for late postings and will be counted as absent for the week. **Missing two consecutive discussion posts could result in you being dropped from the course for nonattendance.** It is advised that students take these discussion questions as an opportunity to “make sense” of statistics and post scholarly messages that are personally and professionally relevant. **Simply restating the text will not show that you make sense of the content**—you should show that you understand the content in your own words.

**Statistical Analysis Capstone Project (100 points)** – The purpose of the capstone project is to demonstrate your ability to appropriately apply statistical tests and to interpret statistical results. Your capstone will be on the topic of your choice. You **must** use **each** of the following statistical tests in your capstone paper: (1) descriptive statistics for a sample, (2)  $t$  statistic for a single sample, (3)  $t$  statistic for independent samples **OR**  $t$  statistic for related samples as is appropriate, and (4) Pearson  $r$  for a **total of four** statistical tests. **Each** of the four statistical tests **must** include the following sections: (1) introduction to topic (the circumstance for the statistical test), (2) research question, and hypothesis, (3) data analysis, findings and (4) conclusions. This assignment will demonstrate your understanding of statistics and your ability to use it to design research studies. Students are advised to begin to work on this project now, as you continue your learning journey over the semester, rather than wait until the end of the semester. More information will be provided in Canvas in the coming weeks, along with the rubric that will be used to grade your work. A past paper will be provided in Canvas as an example of how to organize, or structure, your capstone paper. Follow the instructions for the content of the capstone paper to meet current requirements.

**Bonus Assignments—Data Analysis Assignment (10 points)** – Statistics is used to analyze and interpret data. Building on the theoretical knowledge learned in the course, students will learn to analyze data using computer software. To complete this assignment, students will first learn to access the software through Eagle Apps (<https://eagleapps.nccu.edu>). Further instructions for earning bonus points will be posted to Canvas toward the end of the term. This assignment is optional.

An additional bonus assignment (5 points) will be posted closer to the end of the semester. This assignment is optional.

## Evaluation Criteria

Assessment	Due Date	Points Available
Attendance and Participation	Weekly Your discussion post is due on <b>Wednesdays before 11:30pm</b>	140 pts.
Chapter Quizzes	Quizzes are due on <b>Sundays before 11:30pm</b>	130 pts.
Statistical Analysis Capstone Project	Monday, 011/27/23 <b>before 12:00pm (noon)</b>	100 pts.

## Grading Scale and Assessment Alignment

Students can earn up to 370 points.

A	90-100%
B	80-89%
C	70-79%
F	69% and below

## Ground Rules for Course Activities and Netiquette for Discussion Board Participation

### Ground Rules for Attending and Participating in Course Activities

*Rule 1 – Make the Time Commitment:* This online course has been developed so that everyone (even those with the most math anxiety) can master the content. However, you must be willing to devote the appropriate amount of time to successfully complete the course activities and assignments as required. You should expect to spend at least six hours per week reading and reflecting on content, practicing concepts, and completing assignments. A minimum six-hour per week commitment is a realistic expectation. This estimate is based on the minimum number of hours of contact and study time required for a graduate level course delivered face-to-face. For example, if you were to take this course face-to-face, you would spend 3 hours per week sitting in class in addition to an hour or so for commuting to and from home/work, and several more hours for reading the textbook and doing homework. If you do not or cannot

make a time commitment and adhere to the course schedule for completing each assignment in a timely manner, then this online course may not be appropriate for you.

*Rule 2 – Adhere to the Course Schedule:* It is crucial that you stay on task and complete the course assignments as they are scheduled. **We will complete about one chapter per week; some weeks we will cover multiple chapters.** Each chapter assignment(s) will be kept open for an entire week. The deadline for each quiz will be posted in MindTap.

It is also crucial that you do not miss any more than two assignments. Statistical concepts are built onto each other. If you have missed the material in one chapter, you will not be able to understand the next chapter, and soon the rest of the content will become very confusing to you. You will learn statistics and obtain a good grade only when you follow the course activities as they are scheduled. My best advice is that you do not miss any chapter quizzes so that the grades that will be dropped will truly be for your lowest scores—not a missing quiz.

*Rule 3 – Use the Technology for Online Course Delivery:* This course is entirely delivered online in an asynchronous format. We will be using Canvas for online delivery and to communicate with one another. The homework, quizzes, tutorials, and most of the material will be through MindTap, which you will access through Canvas. It is your responsibility to have instant and continuous access to a working computer with Internet connection throughout the course.

Canvas will serve as a “virtual” classroom for the course. You should look to Canvas for information/requirements updates, assignments, discussions, etc. It should be your first place to look for information about the course.

We will use MindTap for submitting most of the required coursework, therefore you should make certain that you access and follow instructions (in Canvas) for registering with Cengage. MindTap is integrated into Canvas so after you register, you can login once to access materials in Canvas and MindTap. Tutorials and supplemental materials are available in MindTap and I encourage you to take advantage of these resources. The scores from MindTap will be recorded in Canvas; the two systems are integrated.

Finally, we will use the SPSS software for data analysis. You will need the computer software to complete these assignments. The good news is that you are not required to purchase this software. You can retrieve the software through NCCU’s Eagle Apps and directions are forthcoming.

*Rule 4 – Use the following Canvas protocols:* Go to the appropriate week in Canvas to access the module(s) for that week. You will be introduced to the statistical concepts that you are expected to learn during the week through module(s) in Canvas. The modules will house the essential and supporting course materials, quizzes, and discussion post for each chapter covered during each week. To earn all your attendance and participation points, students must

give **meaningful** responses to the questions posed that demonstrate mastery of the content, are well written, and are free of errors. Proper sources must be cited (in APA style) as appropriate.

*Rule 5 – Note Important Dates:* It is my greatest wish that **all** of you fulfill your commitment to this course. If, however, you are not able to comply with the course requirements, please note important dates regarding withdrawal from the course/institution as posted in the NCCU's Academic Calendar.

## **Participatory Learning**

Participation in the discussion forums is critical for maximizing your learning experiences in this course. You are required to be part of an online community who interacts, through discussion, to enhance and support the professional development of the group. Part of the assessment criteria for the course includes assessing the quality and quantity of your participation in the discussion forum. Some characteristics of excellent discussion contributions are outlined below:

- **NETIQUETTE:** Be courteous and respectful to your classmates and your instructor through [considerate etiquette](#). In this course, that includes (but is not limited to):
  - Maintaining a formal, respectful, civil, professional tone with all course communications, including but not limited to journals, discussion boards, wikis, and emails.
  - Use Standard American English for all projects and posts. This means no text-speak.
  - Avoid derogatory language, obscenity, and hate speech. ○ Avoid the use of CAPS in writing, as this indicates shouting.
- You should submit your initial post(s) early in the week and your subsequent responses to the posts of other learners at timely intervals within the week. Keep in mind that the goal is to have a dynamic discussion that lasts throughout the entire session.
- Your posts and responses should be thorough and thoughtful. Just posting "I agree" or "Good ideas" will not be considered adequate. Support your statements with explanations, examples, experiences, or references.
- Make certain to address the discussion prompt(s). This does not mean you should not extend the topic, but do not stray from the topic.

- Discussions occur when there is dialogue. So, build upon the posts and responses of other learners to create discussion threads. Make sure you revisit the discussion forum and respond (if necessary) to what other learners have posted to your initial responses.
- When relevant, add to the discussion by sharing references, websites, resources, etc. (giving credit when appropriate).
- Your contributions to the discussions (posts and responses) should be complete and free of grammatical or structural errors.

## Essential Policies, Services & Resources

Any action by a student that interferes with the education of another student or interferes with the operations of the University in carrying out its responsibility to provide a safe and conducive educational environment will be considered a violation of the [NCCU Student Code of Conduct](#).

### Statement of Inclusion/Non-Discrimination

North Carolina Central University is committed to the principles of affirmative action and non-discrimination. The University welcomes diversity in its student body, its staff, its faculty, and its administration. The University admits, hires, evaluates, promotes, and rewards on the basis of the needs and relevant performance criteria without regard to race, color, national origin, ethnicity, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran's status, or religion. It actively promotes diversity and respectfulness of each individual.

### Student Accessibility Services

Students in need of support for personal conditions (i.e. neurodiversity, psychosocial & physical diagnosis, and/or medical conditions) can request reasonable accommodations under the Americans with Disabilities Act through the Office of Student Accessibility Services (SAS) in Suite 120 in the Student Services Building. Students who are new to SAS or who are requesting new accommodations should complete an accessibility request form here: [https://nccu-accommodate.symlicity.com/public\\_accommodation/](https://nccu-accommodate.symlicity.com/public_accommodation/). Should student have any questions or concerns when completing the form, students can contact SAS at (919) 530-6325 or [sas@nccu.edu](mailto:sas@nccu.edu) to discuss available programs and services. Students who are already registered with SAS and who would like to maintain their accommodations must renew previously granted accommodations by logging into the Eagle Accommodate Student Portal here: <https://nccu-accommodate.symlicity.com> Students can also find the Eagle Accommodate System in the MyEOL portal.

Students are expected to renew previously granted accommodations prior to the beginning of each semester (Fall, Spring & Summer sessions). Reasonable accommodations may be requested at any time during the semester for all students; however, accommodations are not retroactive. Returning semester requests for returning students are expected to be done within the first two weeks of the

semester. Students are advised to contact their professors to discuss the testing and academic accommodations that they anticipate needing for each class.

Students identifying as pregnant or other pregnancy-related conditions who would like to request reasonable accommodations and services must register with SAS. **Additionally, we have included the most recent U.S. Department of Education Pregnancy Guidelines for your review, and to ensure your compliance.**

### **Confidentiality and Mandatory Reporting**

All forms of discrimination based on sex, including sexual harassment, sexual assault, dating violence, domestic violence, and stalking offenses, are prohibited under NCCU's Sexual Harassment Policy (NCCU POL 01.04.2). **NCCU faculty and instructors are considered to be mandatory reporters and are required to promptly report information regarding sexual harassment to the University's Title IX Coordinator.** The Sexual Harassment Policy can be accessed through NCCU's Policies, Regulations and Rules website at [www.nccu.edu/policies](http://www.nccu.edu/policies). Any individual may report a violation of the Sexual Harassment Policy (including a third-party or anonymous report) by contacting the Title IX Coordinator at (919) 530-7944 or [TitleIX@nccu.edu](mailto:TitleIX@nccu.edu), or submitting the online form through the Title IX Reporting Form, located at [www.nccu.edu/titleix](http://www.nccu.edu/titleix).

### **Other Campus Programs, Services, Activities, and Resources**

Other campus resources to support NCCU students include:

- **Student Advocacy Coordinator.** The Student Advocacy Coordinator is available to assist students in navigating unexpected life events that impact their academic progression (e.g., homelessness, food insecurity, personal hardship) and guide them to the appropriate University or community resources. Contact Information: Student Services Building, Room G19, (919) 530-7492, [studentadvocacy@nccu.edu](mailto:studentadvocacy@nccu.edu).
- **Counseling Center.** The NCCU Counseling Center is staffed by licensed psychologists and mental health professionals who provide individual and group counseling, crisis intervention, substance abuse prevention and intervention, anger management, and other services. The Counseling Center also provides confidential resources for students reporting a violation of NCCU's Sexual Misconduct Policy. Contact Information: Student Health Building, 2<sup>nd</sup> Floor, (919) 530-7646, [counseling@nccu.edu](mailto:counseling@nccu.edu).
- **University Police Department.** The University Police Department ensures that students, faculty and staff have a safe and secure environment in which they can live, learn, and work. The Department provides a full range of police services, including investigating all crimes committed in and around its jurisdiction, making arrests, providing crime prevention/community programs, enforcing parking regulations and traffic laws, and maintaining crowd control for campus special events. Contact Information: 2010 Fayetteville Street, (919) 530-6106, [nccupinfo@nccu.edu](mailto:nccupinfo@nccu.edu).

### **Student Support Services for Veteran Students**

#### **Veteran's Affairs:**

The NCCU Veterans Affairs (VA) office aims to provide a smooth transition from the military to college life for veterans, service members, and dependents. NCCU is recognized by G. I. Jobs as a "Military Friendly School" and has established Eagle Vets, a recognized chapter of Student

Veterans of America. Our team can assist you with the VA educational benefits process and offer overall support to ensure academic progression towards graduation. For more information contact: **NCCU Veterans Affairs: Veterans Affairs Coordinator**  
Email: [veteransaffairs@nccu.edu](mailto:veteransaffairs@nccu.edu)  
Phone: [919-530-5000](tel:919-530-5000)

### **Attendance Verification Policy:**

Before Financial Aid is disbursed each semester, NCCU must confirm that you have begun attendance in all of your courses. Your instructor must validate your attendance for each course. See section on Class attendance & Participation.

### **Class Attendance Policy**

Class attendance is expected of students at North Carolina Central University and represents a foundational component of the learning process in both traditional on-campus and online courses. Students should attend all sessions of courses for which they are registered for the entire scheduled period and are responsible for completing all class assignments. As of Fall 2017 NW and NF attendance grades will no longer be assigned. ***A student who misses three consecutive class meetings or misses more classes than the instructor deems advisable is subject to being dropped from the course.*** Students who miss class to participate in university-authorized activities or to respond to military orders are given excused absences for the missed class time. It is the student's responsibility to inform the instructor of such activities at least one week before the authorized absence, and to make up all work as determined by the instructor.

EDGR 5910 Introduction to Statistical Methods in Education is an online course that is delivered in an asynchronous format. **Students are responsible for checking in each week to view the objectives of each module and are expected to spend the time required to keep current on the readings and assignments associated with each module.** Attendance is an important part of the course experience. *Attendance includes active engagement in the course's Canvas site, MindTap, and discussion boards.* Many topics could be covered in modules that are not included in the textbook or other readings.

Students are responsible for presenting adequate reason for online absence to the instructor **in writing**. To the extent possible, students should notify the instructor in advance about anticipated absences. Students are encouraged to complete scheduled assignments prior to the absence when possible. If students cannot give advance notice of an absence, they should

notify the instructor as soon as possible for the reason for the absence with appropriate documentation. (Adequate reasons include personal illness; medically necessary absences due to pregnancy or childbirth; death or illness in the immediate family; military obligations; inclement weather; religious holidays; court-imposed legal obligations; approved accommodations by the Office of Services for Individuals with Disabilities; or participation in a pre-approved university activity.)

Assignments will not be accepted past the due date without sufficient prior notification and documentation. However, 2 points will be deducted from the discussion posts for each discussion post that is late, and a late discussion post will result in you being marked as absent for the week. After one week (7 days) past the due date, module assignments will no longer be accepted, except in the case of university approved absences. **The discussion post assignment is the indicator of your class attendance.** If you miss two consecutive discussion posts, you are subject to being dropped from the course for nonattendance.

### **The Incomplete (I) Grade Policy**

The Grade of “I” is assigned at the discretion of the instructor when a student who is otherwise passing (completed 75% of course work) has not, *due to circumstances beyond his/her control*, completed all the work in the course. The missing work must be completed according to the written and signed agreement between the instructor and the student within the deadline set by the instructor, not to exceed one year from the end of the semester in which the “I” was assigned. The signed written agreement must be filed in the office of the department chair or dean and a copy must also be placed in the instructor’s file at the same time that final grades are due. If the “I” is not removed during the specified time, it will automatically turn into an F or NP.

### **Academic Integrity**

Details regarding academic integrity can be found in [Undergraduate Students Code of Academic Integrity](#) and [Graduate Academic Integrity Policy](#) and these policies will be enforced in this course. It is your responsibility to read the codes. As a center of learning, teaching, and research, North Carolina Central University charges its members, including students, to maintain patterns of behavior that enable the aforementioned essential functions.

### **Academic Dishonesty Defined**

Academic dishonesty is defined as any conduct that is intended by the student to obtain for him/her or for others an unfair or false evaluation in connection with any examination or other work for academic credit. Cheating, fabrication, plagiarism, and complicity are examples of conduct that is academically dishonest. Cheating is the unauthorized use of materials in

connection with an examination or other work for academic credit, including, but not limited to:

- The use of books, notes, outlines, etc. during an examination where the instructor has not authorized use of such materials or information;
- Seeking unauthorized materials or information from others in connection with an examination;
- Giving or attempting to give unauthorized assistance to another person in connection with an examination;
- Obtaining or attempting to obtain unauthorized copies of examinations;
- Copying or attempting to copy from the work of another student during an examination;
- Bringing to an examination, or attempting to use during an examination, unauthorized answers which have been prepared prior to the examination; and
- Submitting for evaluation in a course, part or the whole of a work for which credit has been given previously.

Fabrication is the invention, counterfeiting and/or alteration of quoted passages, data, procedures, experiments, sources or other information in connection with any academic exercise.

Plagiarism is the use of the ideas, words, or works of another without attribution when the information provided is not common knowledge either in content or form and includes, but is not limited to:

- Quoting from the published or unpublished work of another without appropriate attribution;
- Paraphrasing or summarizing in one's own work any portion of the published or unpublished materials of another without attribution; and
- Borrowing from another's work, data, and facts which are not in the domain of common knowledge.

Complicity is the giving of assistance or the attempt to give assistance to another for the purpose of perpetrating academic dishonesty.

### **Adverse Weather**

Read <http://www.nccu.edu/health-safety/emergency/adverseweather.cfm> for the University's policy on adverse weather and follow the instructions as outlined in the University policy. In addition, announcements regarding scheduled delays or the closing of the university due to adverse weather conditions will be broadcast on local radio and television stations. Since travel to class is not necessary, the pace of this course is not likely to be affected by adverse weather.

## Course Calendar

Week	Topics	Course Activities	Deliverables due by 11:30pm Sundays unless otherwise noted
Wk 1 08/14/23	Personal Introductions Pre-course tutorials and practice problems  <b>Ch 1</b> Intro to Statistics  <b>Ch 2</b> Frequency Distributions	<ul style="list-style-type: none"> <li>• Greetings and personal introductions</li> <li>• Introductions to syllabus, Canvas, and MindTap</li> <li>• Read the chapters</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• MindTap Registration</li> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 08/16/23</b>
Wk 2 08/21/23	<b>Ch 3</b> Central Tendency	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>08/23/23</b>
Wk 3 08/28/23	<b>Ch 4</b> Variability  <b>Ch 5</b> Z Score	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 08/30/23</b>
Wk 4 09/04/23	<b>Ch 6</b> Probability  <b>Ch 7</b> Probability and Samples: Distribution of Sampling Means	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 09/06/23</b>

<b>Week</b>	<b>Topics</b>	<b>Course Activities</b>	<b>Deliverables due by 11:30pm Sundays unless otherwise noted</b>
Wk 5 09/11/23	<b>Ch 8</b> Introduction to Hypothesis Testing	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 09/13/23</b>
Wk 6 09/18/23	<b>Ch 9</b> Intro to $t$ Statistic  <b>Ch 10</b> The $t$ -test for Two Independent Samples  <b>Ch 11</b> The $t$ -test for Two Related Samples		<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 09/20/23</b>
Wk 7 09/25/23	Reflect & Review	<ul style="list-style-type: none"> <li>• Review prior chapters</li> <li>• Revisit prior chapters' tutorials</li> <li>• Revisit prior chapters' practice problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 09/27/23</b>
Wk 8 10/02/23	<b>Ch 12</b> Introduction to Analysis of Variance	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 10/04/23</b>
Wk 9 10/09/23	<b>FALL BREAK</b>		<ul style="list-style-type: none"> <li>• Discussion Posts</li> </ul> <b>Due 10/11/23</b>
Wk 10 10/16/23	<b>Ch 13</b> Repeated Measures & Two-Factor Analysis of Variance	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 10/18/23</b>

<b>Week</b>	<b>Topics</b>	<b>Course Activities</b>	<b>Deliverables due by 11:30pm Sundays unless otherwise noted</b>
Wk 11 10/23/23	<b>Ch 14</b> Correlation and Regression	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> <li>• Orientation to SPSS</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 10/25/23</b>
Wk 12 10/30/23	<b>Ch 15</b> The Chi-Square Tests for Goodness of Fit and Independence	<ul style="list-style-type: none"> <li>• Read the chapter</li> <li>• View the ch ppt</li> <li>• Chapter tutorials</li> <li>• Practice chapter problems</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter Quizzes</li> <li>• Discussion Posts</li> </ul> <b>Due 11/01/23</b>
Wk 13 11/06/23	Review & Reflect  Technology & Statistics	<ul style="list-style-type: none"> <li>• Re-Read the chapters as needed</li> <li>• Review the chs' ppts</li> <li>• Chapter tutorials</li> <li>• Access to the NCCU Eagle Apps</li> <li>• Orientation to Excel and SPSS</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Posts</li> </ul> <b>Due 11/08/23</b>
Wk 14 11/13/23	Reflect & Review	<ul style="list-style-type: none"> <li>• Review prior chapters</li> <li>• Revisit prior chapters' tutorials</li> <li>• Revisit prior chapters' practice problems</li> <li>• Review/edit Capstone Paper</li> </ul>	<ul style="list-style-type: none"> <li>• Discussions to Canvas</li> </ul> <b>Due 11/15/23</b>
Wk 15 11/20/23	Reflect & Review	<ul style="list-style-type: none"> <li>• Review prior chapters</li> <li>• Revisit prior chapters' tutorials</li> <li>• Revisit prior chapters' practice problems</li> <li>• Review/edit Capstone Paper</li> </ul>	<ul style="list-style-type: none"> <li>• Discussions to Canvas</li> </ul> <b>Due 11/22/23</b>
Wk 16 11/27/23			<ul style="list-style-type: none"> <li>• Discussions to Canvas</li> <li>• <b>Capstone Project due Monday, 11/27/23 12:00pm (noon)</b></li> <li>• <b>Bonus Assignments</b></li> <li>• <b>Due Monday, 11/29/23 12:00pm (noon)</b></li> </ul>

## Virtual Office

Virtual office hours are held as listed below and by appointment as needed. The virtual office hours sessions are held through Zoom and are optional. You should schedule an appointment if your question is of a sensitive nature, such as asking questions regarding a grade that you received.

Wynetta Lee is inviting you to a scheduled Zoom meeting.

Topic: EDGR 5910 Virtual Office Hours

Time: Aug 14, 2023 05:00 PM Eastern Time (US and Canada)

Every week on Mon, until Nov 20, 2023, 15 occurrence(s)

Aug 14, 2023 05:00 PM

Aug 21, 2023 05:00 PM

Aug 28, 2023 05:00 PM

Sep 4, 2023 05:00 PM

Sep 11, 2023 05:00 PM

Sep 18, 2023 05:00 PM

Sep 25, 2023 05:00 PM

Oct 2, 2023 05:00 PM

Oct 9, 2023 05:00 PM

Oct 16, 2023 05:00 PM

Oct 23, 2023 05:00 PM

Oct 30, 2023 05:00 PM

Nov 6, 2023 05:00 PM

Nov 13, 2023 05:00 PM

Nov 20, 2023 05:00 PM

Join Zoom Meeting

<https://nccu-edu.zoom.us/j/89097355564?pwd=dHMySzZnSFUxMkMwbFRLdIp6d1hMUT09>

Meeting ID: 890 9735 5564

Passcode: EDGR5910