

SOCI 3280: Quantitative Data Analysis

Fall 2026

Instructor: Ghazaleh Ebnenasir
Instructor Email: Ghazaleh.Ebnenasir@unt.edu
Office Hours: Thursdays 11:00 a.m. to 1:00 p.m. or by appointment
Teaching Assistant: Walid Abdul-Qader
TA Email: WalidAbdul-Qader@my.unt.edu

Course Description

This course is an introduction to descriptive and inferential statistics used in data analysis in the social sciences. After completing the course, you should be able to choose the appropriate statistics for a given research question and calculate and interpret some of these statistics. The course fulfills the College of Liberal Arts and Social Sciences requirement for Communication and Digital Skills.

Course Structure

This course is 100% online and is an upper-level sociology course designed to focus on independent learning. Students are expected to log into Canvas frequently each week, read all announcements, stay tuned to the Tentative Course Schedule in the syllabus and Canvas, read the assigned chapters in the textbook, review weekly lessons on Canvas, and complete all assignments in order. If you have any questions about the reading material or need clarification, please get in touch with me via your Canvas inbox or UNT email.

Course Prerequisite

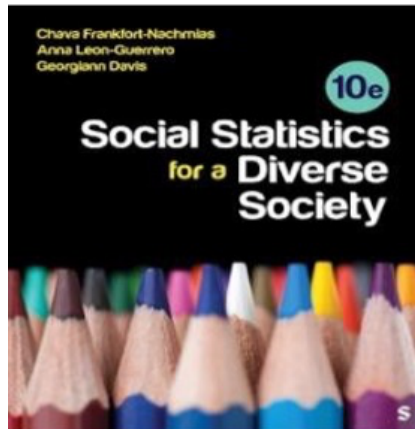
You must have passed SOCI 3220 Quantitative Data Collection or an equivalent course with a “C” or higher before enrolling in this course. You are expected to be familiar with Canvas using tools such as quizzes, exams, and submitting assignments. Additionally, to be successful in this course, you will need to cite sources in your writing, giving credit to where you obtain information, either using APA, MLA, or ASA formatting.

Required Material

Frankfort-Nachmias, Chava; Leon-Guerrero, Anna; & Davis, Georgiann. *Social Statistics for a Diverse Society (10th ed.)*. SAGE Publications, 2025. ISBN-13: 9781071910474; ISBN-13: 978-1071910504 (Hereafter, I am going to address the textbook as **SSDS**.)

You will need a simple **calculator** with a square root key.

- NOTE: I have uploaded publisher-provided Chapters 1 & 2 in Canvas (See module → Week 1 for Chapter 1; Week 2 module for Chapter 2) to help you begin the course. Please note, this is to help students complete their work in the first two weeks of class as they work to obtain the required textbook. **Students in this course are required to obtain and use the above textbook.**



Communication Expectations

I am here to support your learning. If you have any questions about the material or need clarification, you can contact me via your Canvas inbox or UNT email. You are also welcome to visit me during office hours. I will respond within 24 hours, except on weekends or holidays.

How to Succeed

To excel in this course:

- Please don't wait until the last minute to get started on weekly lessons in this course.
 - Please work ahead and submit all assignments in order and on time.
 - NOTE: Please go through the late work policy in the syllabus.
- Closely read all assigned chapters in the textbook.
- Closely review Canvas weekly lessons and go through learning checks on Canvas.
- Take your own notes while reviewing/reading the weekly chapters and lessons.
- Submit all quizzes, exams, and assignments on time.

Technical Requirements and Skills

Here is a list of the minimum technology requirements for students for this course:

- Working computer and reliable internet access
 - If your Internet is out or if your personal computer has an issue, you are expected to use the computer clusters on campus to complete your work.
 - If it is not possible to go to campus, please find another working computer with reliable Internet access to complete your work.
- Microsoft Office Suite and Canvas

Course Assignments and Values

Description	Points / Percent
Syllabus Quiz	20 Pts/ 2%
Pre-Test Assessment Post-Test Assessment	40 Pts/ 4% 40 Pts/ 4%
Weekly Chapter Quizzes - There are a total of 12 weekly Quizzes in this course. <u>Please see Canvas for complete details about the quizzes.</u> <u>Please see Canvas/syllabus for due dates for each quiz.</u> <i>To do well in the course students should not miss any Chapter Quizzes.</i> - If you take all 12 weekly Quizzes, 2 of your lowest grades will be dropped. - Each quiz is worth up to 50 points. 10 X 50 = 500 points	500 Pts / 50%
TWO EXAMS - In this course there are two exams throughout the course. Exam 1 covers SSDS textbook Chapters (1 – 7) & Canvas Lessons (1 – 6) due Sunday, 3/8 at 11:59 PM Exam 2 covers SSDS textbook Chapters (8 – 10 & 12) Canvas Lessons (7 – 12) due Thursday, 5/7 at 11:59 PM - Each Exam is worth up to 200 points. 2 X 200 = 400 Points	400 Pts / 40%
TOTAL	1000 Pts / 100%

Grading Scale

- 90-100% of 1000 points = A
- 80-89% of 1000 points = B
- 70-79% of 1000 points = C
- 60-69% of 1000 points = D
- 59% or less of 1000 points = F

Incomplete Grades

Incomplete grades may only be assigned when the student is making satisfactory progress until the request for an incomplete is made. A grade of "I" will only be offered with medical documentation or other documentation that a highly unusual circumstance beyond the student's control has made finishing the semester impossible. All requests for the grade of "I" must be made before the final examination.

Rules of Engagement

Here are some general guidelines for the way students are expected to interact with each other and with their instructor:

- While the freedom to express yourself is a fundamental human right, any communication that utilizes cruel and derogatory language on the basis of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law will not be tolerated.
- Please treat your instructor and classmates with respect in any communication online or face-to-face, even when their opinion differs from your own.
- Ask for and use the correct name and pronouns for your instructor and classmates.
- Speak from personal experiences. Use "I" statements to share thoughts and feelings. Try not to speak on behalf of groups or other individuals' experiences.
- Use your critical thinking skills to challenge other people's ideas, instead of attacking individuals.
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using "text-talk".
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so please think first before you type.

See these Engagement Guidelines (<https://clear.unt.edu/online-communication-tips>) for more information. Students are responsible for knowing the Canvas environment. This means that students are responsible for their own training in Canvas. Technical problems with Canvas software are to be directed to the Help Desk.

UNT Help Desk - 940-565-2324 / Sage Hall 330 / helpdesk@unt.edu / Laptop Checkout: For details, see [Laptop Checkout Program](#).

Monday - Thursday 8:00 AM – midnight/ Friday 8:00 AM - 8:00 PM/ Saturday 9:00 AM - 5:00 PM & Sunday noon – midnight

Course Requirements

Class Attendance and Participation: Because the course material is cumulative, you must keep up with the weekly assigned readings, Canvas lessons, weekly quizzes, any other assignments, and exams. This course is 100% online and is an upper-level sociology course designed to focus on independent learning. Students are expected to log into Canvas frequently each week, read all announcements, stay tuned to the Tentative Course Schedule in the syllabus and Canvas, read the assigned chapters in the textbook, review weekly lessons on Canvas, and complete all assignments in order. This course consists of a Syllabus Quiz, Weekly Quizzes covering the weekly lessons on Canvas and assigned chapters from the textbook, a Pre-Test, Exam 1, a Post-Test, and Exam 2; details for each assignment are available on Canvas. If you have any questions about the reading material or need clarification, please get in touch with me via your Canvas inbox or UNT email. You can also stop by my office hours.

Reading Assignments: Each week, you are responsible for reading the assigned textbook chapter and completing the Canvas lessons, including the learning checks, as outlined in the tentative schedule and weekly Canvas modules. In this course, we will cover Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition's Chapters 1–10 & 12, and Canvas Lessons 1–12.

Weekly Lessons: There are 12 weekly Canvas lessons. They can be found on the “Modules” page on the course website in Canvas. As you click through the pages of a lesson, also review the learning checks that are embedded within it. The learning checks are designed to reinforce the concepts and prepare you for the weekly quizzes and exams. Please make sure to go in order and not skip any topics within the Canvas weekly lessons.

Syllabus Quiz:

During the first week of the course, students are required to complete an online quiz in Canvas covering the syllabus and course expectations. The purpose of this quiz is to ensure that you understand the course requirements and expectations.

If you have carefully read the syllabus and reviewed the directions for all assignments, you should perform well on this quiz. Here are the key details:

- The quiz is worth up to 20 points.
- You are allowed 20 minutes to complete the quiz.
- You are permitted to take the quiz twice. Your highest score will be recorded.
- If you do not do well on your first attempt, revisit the syllabus and try again.
- The due date is listed both on Canvas and the tentative course schedule.

Stats Assessment Pre-Test:

This pre-test is for audit purposes. You will earn 40 points for an on-time, fully completed submission (all 20 questions answered), regardless of how many you answer incorrectly. Late or incomplete submissions receive 0; no re-dos or resubmissions. Please do your best!

Please note: Immediately after you submit, Canvas will show an auto-graded score. The day after

the Pre-Test deadline, on-time, fully completed submissions (all 20 questions answered) will be converted to a completion grade of 40 points.

- Number of Questions: 20
- **Time Limit:** 40 minutes
- **Attempts:** 1 (one attempt only)
- **Format:** Questions will be shown **one at a time** and will be **locked after answering** (you cannot return to previous questions).
- The due date is listed both on Canvas and the tentative course schedule.

Weekly Quizzes:

There are 12 online weekly quizzes. Each quiz is worth 50 points, and I will drop the two lowest weekly quizzes. Quizzes are worth a total of 500 points and constitute 50% of your total grade. You can access each week's quiz on Canvas.

To do well on the quizzes, please closely read the week's assigned chapter(s) in our textbook, Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition, review the respective week's Canvas lesson, and go through learning checks on Canvas.

- Quizzes are open-book and open-notes.
- All graded work must be completed independently. Please do not collaborate with others or use generative AI or external answer services on graded work in this course.
- Each quiz consists of 10 multiple-choice or true/false questions, with each question worth 5 points (50 points total per quiz).
- Students are allowed two attempts per quiz, and the highest score will be recorded.
- HINT: Even if you score perfectly on your first attempt, it's beneficial to take the quiz a second time. You'll typically encounter additional questions, which can help reinforce your learning.
- Quizzes are untimed to support student learning and review.
 - Each quiz attempt is untimed and must be submitted by the posted deadline.
 - Also, any unanswered questions at submission will be marked incorrect. Questions are presented all at once, not one at a time.
- Answers will be available after the quiz due date.
- Quizzes cannot be made up if missed. **This is because *two of the lowest quiz grades will be dropped at the end of the semester.***
- However, to do well in this course, I recommend that students not miss any quizzes.
 - The due date for each weekly quiz is listed both on Canvas and the tentative course schedule.

Exam 1

To do well on Exam 1, please carefully review Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition's Chapters 1–7, and Canvas Lessons 1–6. Be sure also to review the learning checks, your notes, and weekly quizzes.

- Exam 1 is due: October 11, 2026, at 11:59 PM
- Download Appendix A Table of Random Numbers (Week 5) and Appendix B The Standard Normal Table (Week 4) for reference before you click "Begin."

Exam Format & Policies:

- Exam 1 consists of 50 multiple-choice and true/false questions.
 - Each student will be presented with a different set of 50 questions that the instructor has personally vetted.
- You will have 90 minutes to complete the exam once you begin.
- You are allowed only one attempt.
- Exams are open-book and open-notes, but must be completed independently. Collaboration with others, use of generative AI, or external answer services is not permitted.
- Questions are presented all at once, not one at a time.
- The exam must be submitted by the posted deadline; late submissions are not accepted.
- Answers will be available after the exam due date.
- If you need to schedule a different time and due date for Exam 1, you must contact the professor no later than one week before Exam 1 is due to set up an alternative time.

Tips for Success:

- Start studying early, and pace yourself by reviewing the Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition, Chapters 1–7, and Canvas Lessons 1–6.
- Also, use the Canvas weekly lessons, learning checks, and weekly quizzes to both review and test your knowledge before attempting the exam.
- Plan to take the exam in a quiet, reliable internet environment to minimize stress and technical issues.
- Download Appendix A Table of Random Numbers (Week 5) and Appendix B The Standard Normal Table (Week 4) for reference before you click "Begin."

Stats Assessment Post-Test:

This post-test is for audit purposes. You will earn 40 points for an on-time, fully completed submission (all 20 questions answered), regardless of how many you answer incorrectly. Late or incomplete submissions receive 0; no re-dos or resubmissions. Please do your best!

Please note: Immediately after you submit, Canvas will show an auto-graded score. The day after the post-test deadline, on-time, fully completed submissions (all 20 questions answered) will be converted to a completion grade of 40 points.

- Number of Questions: 20

- Time Limit: 40 minutes
- Attempts: 1 (one attempt only)
- Format: Questions will be shown one at a time and will be locked after answering (you cannot return to previous questions).
- Post-Test is due date is listed both on Canvas and the tentative course schedule.

Exam 2

To do well on Exam 2, please carefully review Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition, Chapters 8-10 & 12, and Canvas Lessons 7–12. Be sure also to review the learning checks, your notes, and weekly quizzes.

- Exam 2 is due: December 10, 2026, at 11:59 PM

Download Appendix C Distribution of T and Appendix D Distribution of Chi-Squared for reference before you click "Begin."

Exam Format & Policies:

- Exam 2 consists of 50 multiple-choice and true/false questions.
 - Each student will be presented with a different set of 50 questions that the instructor has personally vetted.
- You will have 90 minutes to complete the exam once you begin.
- You are allowed only one attempt.
- Exams are open-book and open-notes, but must be completed independently. Collaboration with others, use of generative AI, or external answer services is not permitted.
- Questions are presented all at once, not one at a time.
- The exam must be submitted by the posted deadline; late submissions are not accepted.
- Answers will be available after the exam due date.
- If you need to schedule a different time and due date for Exam 2, you must contact the professor no later than one week before Exam 2 is due to set up an alternative time.
- If you contact the instructor after Exam 2 has closed, you cannot make up Exam 2. The course is considered complete after Exam 2 is due.

Tips for Success:

- Start studying early, and pace yourself by reviewing the Social Statistics for a Diverse Society (SSDS) by Frankfort-Nachmias et al., 10th edition's Chapters 8-10 & 12, and Canvas Lessons 7–12.
- Also, use the Canvas lessons, learning checks, and weekly quizzes to both review and test your knowledge before attempting the exam.
- Plan to take the exam in a quiet, reliable internet environment to minimize stress and technical issues.
- Download Appendix C Distribution of T and Appendix D Distribution of Chi-Squared

for reference before you click "Begin."

Tentative Course Schedule

NOTE: The following schedule is subject to change. Any changes will be posted on Canvas.

NOTE: Hereafter, I am going to address our textbook as SSDS.

Date	Topic	Reading Assignment	Assignment Due on Canvas
Week 1 Aug. 17 – Aug. 23	Welcome Note Review Syllabus Canvas Lesson 1: The What & the Why of Statistics	SSDS, Chapter 1	Due Sunday, 8/23 at 11:59PM 1. Stats Assessment Pre-Test 2. Syllabus Quiz 3. Week 1, Lesson 1 Quiz
Week 2 Aug. 24 – Aug. 30	Canvas Lesson 2: Frequency/Percentage Distributions & Graphs	SSDS, Chapter 2	Due Sunday, 8/30 at 11:59PM 1. Week 2, Lesson 2 Quiz
Week 3 Aug.31 – Sep. 6	Canvas Lesson 3: Measures of Central Tendency & Variability	SSDS, Chapters 3 & 4	Due Sunday, 9/6 at 11:59PM 1. Week 3, Lesson 2 Quiz
Week 4 Sep. 7 – Sep. 13	Canvas Lesson 4: The Normal Curve	SSDS, Chapter 5	Due Sunday, 9/13 at 11:59PM 1. Week 4, Lesson 4 Quiz

Week 5 Sep.15 – Sep. 20	Canvas Lesson 5: Sampling & Sampling Distribution	SSDS, Chapter 6	Due Sunday, 9/20 at 11:59PM 1. Week 5, Lesson 5 Quiz
Week 6 Sep. 21 – Sep. 27	Canvas Lesson 6: Estimating Population Means Exam 1 opens 9/21	SSDS, Chapter 7	Due Sunday, 9/27 at 11:59PM 1. Week 6, Lesson 6 Quiz
Week 7 Sep. 28 – Oct. 4	Exam 1 Review Use this week to review SSDS, Chapters 1 – 7 & Canvas Lessons 1 – 6 for Exam 1.	Use this week to review SSDS, Chapters 1 – 7 & Canvas Lessons 1 – 6 for Exam 1.	Exam 1 is due Sunday, 10/11 at 11:59PM
Week 8 Oct. 11	Exam 1 due this week!	Review SSDS, Chapters 1 – 7 & Canvas Lessons (1 – 6) for Exam 1.	Exam 1 is due Sunday, 10/11 at 11:59PM
Week 9 Oct. 12 – Oct. 18	Canvas Lesson 7: Introduction to Hypothesis Testing: The One-Sample T-Test	SSDS, Chapter 8	Due Sunday, 10/18 at 11:59PM 1. Week 9, Lesson 7 Quiz
Week 10 Oct.19– Oct. 25	Canvas Lesson 8: More on Hypothesis Testing: The Two-Sample T-Test	SSDS, Chapter 8	Due Sunday, 10/25 at 11:59PM 1. Week 10, Lesson 8 Quiz
Week 11 Oct. 26 – Nov. 1	Canvas Lesson 9: The Bivariate Table	SSDS, Chapter 9	Due Monday, 11/1 at 11:59PM 1. Week 11, Lesson 9 Quiz
Week 12 Nov.2 – Nov. 8	Canvas Lesson 10: The Chi-Squared Test	SSDS, Chapter 10	Due Sunday, 11/8 at 11:59PM 1. Week 12, Lesson 10 Quiz

Week 13 Nov. 13 – Nov. 15	Canvas Lesson 11 Introduction to Elaboration Analysis Exam 2 Opens 30/10	SSDS, Chapter 9	Due Sunday, 11/15 at 11:59PM 1. Week 13, Lesson 11 Quiz
Week 14 Nov. 16 – Nov. 22	Canvas Lesson 12 Relationships between Interval- Ratio Variables: Scatterplot & Correlation Coefficient	SSDS, Chapter 12	Due Sunday, 11/22 at 11:59PM 1. Stats Assessment Post-Test 2. Week 14, Lesson 12 Quiz
Week 15 Nov. 30 – Dec. 6	Use this week to review for Exam 2. Review SSDS, Chapters 8-10 & 12; Canvas Lessons (7-12) Exam 2	Use this week to review for Exam 2. Review SSDS, Chapters 8-10 & 12; Canvas Lessons (7-12) Review SSDS, Chapters 8-10 & 12; Canvas Lessons (7- 12)	Exam 2 is Due Thurs, 12/10 at 11:59PM
Final Exams Dec. 10			Exam 2 is Due Thurs, 12/10 at 11:59 PM

Course Policies

Below is a list of items that you can expect from your professor, as well as a list of items that, if you choose to stay in this course and not drop it, you are agreeing to abide by in this course. Please consider these expectations our Course Policies.

What you can expect from your professor:

1. Respect and active listening.
2. Consistent grading with return time within one week.
3. To treat everyone equally and fairly.

What the professor expects from you:

1. Patience with the professor, and with all others who participate in this class.
2. To read the syllabus carefully each week and know what is supposed to happen.
3. Active participation in the Canvas environment as required by the syllabus.
 - If it appears you are not actively engaged in this course, the professor will use the UNT Care Team reporting system to make recommendations.
4. To complete all assignments as they are scheduled in the **Tentative Course Schedule** in the syllabus/ Canvas
5. To act with academic integrity during any quizzes or exams and in all writing. Your work should be your own. Cheating, plagiarism, or the use of generative AI of any form to complete your work will not be tolerated. See UNT policy on academic dishonesty. [Student Academic Integrity](#)
6. To follow all directions in the syllabus for all course assignments. If you do not follow all directions, you will automatically receive a zero (0).
7. To be responsible for your work and prepare for and handle situations of computer and Internet difficulties. If your Internet is out, go somewhere

where it is working so that you do not miss quizzes or other assignments. Do not wait until the last minute to begin your work. That way, if you do have some technical difficulty, you'll have time to correct it.

8. To contact the Dean of Students, Seeking Options and Solutions (SOS) Office, in the event of a personal emergency in your life. This includes extended illness or hospitalization, death in family, or other personal issue that hinders your possibility of success in the course. Here is the URL and the contact information for that office.
 - <https://deanofstudents.unt.edu/resources/seeking-options-and-solutions>