

DTSC 4050: Statistical Methods for Data Science and Analysis (Fall 2026)

Instructor Contact

Name: Ting Xiao, Ph.D.

Office Location: Discovery Park E296C

Office Hours: Monday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/my/tingxiao>

Email: Ting.Xiao@unt.edu

TA Contact

Name: Jenny Liang

Office Location: Discovery Park E292J

Office Hours: Tuesday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/j/7976304931?pwd=xYgONJmWyjqdNTgofwWn4jZbLSAzp2.1>

Email: ZhenniLiang@my.unt.edu

Name: Haoxuan Zhang

Office Location: Discovery Park E292J

Office Hours: Wednesday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/j/2570125352?pwd=zazSlptPddh43yd7lxTDXG3qMuOaVL.1>

Email: HaoxuanZhang@my.unt.edu

Communication Expectations

You will be expected to check university email and attend class regularly. When you miss a class, you are expected to check Canvas and the course calendar shortly after class to be aware of assignments, readings, and other materials. Questions not answered in class are best asked before or after class. For quick questions, email is preferred and you can expect a response within 24 hours during the work week (M-F). Please email the TA first about assignments or grading concerns. All other matters, you may directly contact the instructor.

Course Description

This course introduces students to statistical methods for data science and analysis through a computational and data-centered approach. Students will develop foundations in statistical reasoning while gaining hands-on experience analyzing real-world data using Python and interactive notebooks. Topics include data ingestion and manipulation, data visualization, exploratory and descriptive statistics, sampling, estimation, hypothesis testing, statistical inference, regression, prediction, and classification. Emphasis is placed on using computation and simulation to understand statistical concepts, selecting appropriate methods for data analysis, interpreting results, and drawing meaningful conclusions from data.

Course Structure

Course modality: synchronous (10:00 am on Mondays) and asynchronous

Location: online

Credit hours: 3

Course Calendar (subject to change)

Week	Date	Topic	Assignments/Holidays/Exams	Readings (Data 8)
1	Aug 17	Course Overview	Lab 01: Expression	Chapter 1 - 4
2	Aug 24	Sequences, Tables, Visualization	Lab 02: Table Operations and Arrays	Chapter 5 - 7
3	Aug 31	Functions and Tables	Lab 03: Functions and Visualizations	Chapter 8
4	Sep 7	Labor Day - No Class		
5	Sep 14	Randomness	Lab 04: Simulations	Chapter 9
6	Sep 21	Sampling and Empirical Distributions	Lab 05: Sampling and Distributions	Chapter 10
7	Sep 28	Testing Hypotheses	Lab 06: Testing Hypotheses	Chapter 11
8	Oct 5	Comparing Two Samples	Lab 07: Comparing Two Samples	Chapter 12
9	Oct 12	Midterm Exam [Canvas]		
10	Oct 19	Estimation, Why the Mean Matters	Lab 08: Normal Distribution and Variance of Sample Means	Chapter 13 - 14
11	Oct 26	Linear Regression	Lab 09: Regression	Chapter 15
12	Nov 2	Regression Inference		Chapter 16
13	Nov 9	Classification		Chapter 17
14	Nov 16	Updating Predictions	Lab 10: Conditional Probability	Chapter 18
15	Nov 23	Thanksgiving Break - No Class		
16	Nov 30	Course Review		
17	Dec 7	Final Exam [Canvas]		

Course Prerequisites or Other Restrictions

This course does not have any prerequisites beyond high-school algebra. The curriculum and format is designed specifically for students who have not previously taken statistics or computer science courses, however, experience with Python is beneficial as it is used extensively in the course.

Course Objectives

Upon successful completion of this course, students will be able to:

1. Apply the data science lifecycle to acquire, clean, organize, explore, and analyze real-world data.
2. Use Python and interactive notebooks to perform statistical analyses, implement computational methods, and communicate analytical results.
3. Summarize and visualize data using appropriate descriptive statistics and graphical methods to identify patterns, relationships, and variability.
4. Explain and apply fundamental concepts of probability and sampling that underlie statistical reasoning and data analysis.
5. Perform statistical inference using computational methods, including simulation, resampling, estimation, confidence intervals, and hypothesis testing.
6. Apply regression methods to examine relationships among variables, make predictions, and evaluate the quality of predictions.
7. Apply classification methods to data-driven prediction problems and evaluate classifier performance using appropriate training and testing procedures.
8. Interpret statistical and computational results in the context of real-world problems, recognizing uncertainty, variability, and limitations of conclusions drawn from data.
9. Communicate data-driven findings effectively using appropriate numerical summaries, visualizations, and written interpretations.

Materials

Textbooks:

1. Computational and Inferential Thinking: The Foundations of Data Science by Ani Adhikari and John DeNero, <https://inferentialthinking.com/>. Free available online.
2. Principles and Techniques of Data Science, by Sam Lau, Joey Gonzalez, and Deb Nolan, <https://www.textbook.ds100.org>. Free available online. (optional).

Course Technology & Skills

Minimum Technology Requirements

Computers/Laptops are **required during class and exams**. If you don't own a laptop, you may borrow one from the library: <https://library.unt.edu/services/laptop-checkout/>

- **Recorded lectures and demos:** You will need a computer/laptop to watch recorded lectures and demos.
- **Assignments:** You will need a computer/laptop to do lab assignments.
- **Exams:** You will need a computer/laptop to take the exams. These will be done individually on your laptop. Exams will use the Canvas quiz system: [Canvas Technical Requirements](https://clear.unt.edu/supported-technologies/canvas/requirements) (<https://clear.unt.edu/supported-technologies/canvas/requirements>)

Computer Skills & Digital Literacy

The following technical skills are required to succeed in the course:

- Using Canvas
- Using email with attachments
- Running Python programs on an Jupyter notebook

Technical Assistance

Part of working in the online environment involves dealing with the inconveniences and frustration

that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

UIT Help Desk: [UIT Student Help Desk site](http://www.unt.edu/helpdesk/index.htm) (<http://www.unt.edu/helpdesk/index.htm>)

Email: helpdesk@unt.edu

Phone: 940-565-2324

In Person: Sage Hall, Room 130

Walk-In Availability: 8am-9pm

Telephone Availability:

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

For additional support, visit [Canvas Technical Help](https://community.canvaslms.com/docs/DOC-10554-4212710328)
(<https://community.canvaslms.com/docs/DOC-10554-4212710328>)

Course Requirements

Readings/Tutorials: These will be available on the course calendar. Expectations of what is learned will be discussed in class and, as will be clear in the first week, lab assignments will test your knowledge on the most important aspects of the readings/tutorials only.

Lab assignments: Lab assignments are designed to engage you in your learning, so you can begin to apply these principles in practice and tailor them to your needs. Unless otherwise specified, assignments are due at midnight on the next Monday. Results should be presentable, with appropriate comments for someone to follow what you have done. Assignments can be done individually or in a group of no more than 3 people, but must be submitted to Canvas individually unless otherwise specified.

Exams: There will be a midterm and a final exam. The exams will resemble assignments, but will be on a new data set with a slightly different request for tasks. Time will be limited, and all work will be individual. You are strongly encouraged to attempt to solve the tasks iteratively and incrementally - write code that works first, but works poorly, and improve from there, rather than write perfect code top to bottom. The final Exam is cumulative. The exam day is already posted and is considered fixed. Prior arrangements can potentially be made without loss of points, but have to be discussed. **The final Exam cannot be missed without prior arrangements or later documented proof of extenuating circumstances.**

Grading

Grades are determined by a simple points system, with a total of *at least* 100 pts given though more than 100 points are likely. The expected distribution of points is given below, with the exact scale determined by point values given for each assignment or exam - this is subject to minor modification based on actual points given. Note, due to the nature of the course, exams are a significant means of establishing your final grade, so please complete the assignments in a timely way and study appropriately prior to the exam.

<i>Activities</i>	<i>Points Possible</i>	<i>Percentage of Final Grade</i>
<i>Lab Assignments</i> • <i>10 assignments @ 5 points ea</i>	<i>50 points</i>	<i>50%</i>
<i>Exams</i> • <i>1 midterm exam @ 20 points</i> • <i>1 final exam @ 30 points</i>	<i>50 points</i>	<i>50%</i>
<i>Total Points Possible</i>	<i>100 points</i>	<i>100%</i>

Grading Scale: A>=90, B=80-89.9, C=70-79.9, D=60-69.9, F=0-59.9 pts. No exceptions. If class grades are low (e.g. I expect the vast majority of students will end with A's and B's), extra points will be added to all the students in the class (we do not assign extra work or extra points for individuals). Note, these grades are based on points and not percentages, so if 120 points are given, you only need 90/120 for an A!

Note: All questions about grades must be brought up within a week after the grades are released. No grade change can be made afterwards.

Course Evaluation

Student Perceptions of Teaching (SPOT) is the student evaluation system for UNT and allows students the ability to confidentially provide constructive feedback to their instructor and department to improve the quality of student experiences in the course.

Course Policies

Class Participation

Students must complete assignments and exams in time to receive the points associated with each activity.

Late Work

Assignments are expected to be submitted by the posted deadline. Late work will be accepted with a **10% deduction for each day (24-hour period)** it is late. Exceptions may be made for documented or extenuating circumstances; students should contact the instructor as soon as possible if an extension is needed.

Examination Policy

The exams will be on the computer/laptop using the Canvas quiz system. It is open internet (only for the use of looking up Python syntax) unless otherwise specified in advance, however, no communication with others other than the instructor or the TA is allowed in any form (e.g., email, chatting, etc.). Students are not allowed to search for the same questions online or copy solutions from previous exams. ChatGPT or similar AI tools are prohibited in the exam. Various versions of a question might be assigned randomly, and submitting solutions to a version not assigned is considered cheating. **Anyone involved in cheating (copying other students' exams, helping others cheat, etc.) will be reported to the university and receive an F in the final grade.** The exam has a time limit, but it can be taken anytime during the exam day. Once it is started, it cannot be paused. The exams cannot be missed. Any accommodations must be given by prior arrangement with the instructor, otherwise documentation proving an extenuating circumstance will have to be provided after the missed exam. The exams are expected to be cumulative in scope.

Technical Errors during Exams

If you experience a technical issue during an exam that prevents you from submitting your work to Canvas, notify the instructor and TAs immediately by email and include evidence of the issue. To ensure your work is submitted on time, email your exam solutions to the instructor and TAs **before the exam deadline**.

Assignment Policy

Unless otherwise specified, assignments are due at midnight on Monday of the next week. Results should be presentable, with appropriate comments for someone to follow what you have done. Assignments can be done individually or in a group of no more than 3 people, but must be completed and submitted to Canvas individually unless otherwise specified.

Instructor/TA Responsibilities and Feedback

- Instructor responsibilities include: supporting students grow and learn, providing clear instructions and expectations for assessments, answering questions about course content and assignments, identifying additional resources as necessary, providing grading rubrics, reviewing and updating course content, etc..
- TA responsibilities include: grading assignments and exams, answering questions about assignments, providing feedback, and helping students grow and learn.
- Estimated timeline for feedback:
 - Assignments and exams will generally be graded within **one week of submission**.
 - Emails will generally receive a response within **24 hours on weekdays (Monday–Friday)**.
 - **Canvas messages are not recommended** and may not receive a response. Please use email instead.
 - **Canvas submission comments are intended for TA feedback to students and are not monitored for student questions or messages**. Please send questions or concerns by email.

UNT Policies

Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003 (<https://policy.unt.edu/policy/06-003>), Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the [ODA website](https://disability.unt.edu/) (<https://disability.unt.edu/>).

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](https://deanofstudents.unt.edu/conduct) (https://deanofstudents.unt.edu/conduct) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward email: [Eagle Connect](https://it.unt.edu/eagleconnect) (https://it.unt.edu/eagleconnect).

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](http://spot.unt.edu/) (http://spot.unt.edu/) or email spot@unt.edu.

Survivor Advocacy

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct. Federal laws and UNT policies prohibit discrimination on the basis of sex as well as sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking and/or

sexual assault, there are campus resources available to provide support and assistance. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-5652648.

Important Notice for F-1 Students taking Distance Education Courses

Federal Regulation

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the [Electronic Code of Federal Regulations website](http://www.ecfr.gov/) (<http://www.ecfr.gov/>). The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:

(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

University of North Texas Compliance

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

- (1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

Student Verification

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses.

See [UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance Education Courses](https://policy.unt.edu/policy/07-002) (<https://policy.unt.edu/policy/07-002>).

Use of Student Work

A student owns the copyright for all work (e.g. software, photographs, reports, presentations, and email postings) he or she creates within a class and the University is not entitled to use any student work without the student's permission unless all of the following criteria are met:

- The work is used only once.
- The work is not used in its entirety.
- Use of the work does not affect any potential profits from the work.
- The student is not identified.
- The work is identified as student work.

If the use of the work does not meet all of the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the UNT System Permission, Waiver and Release Form

Transmission and Recording of Student Images in Electronically-Delivered Courses

1. No permission is needed from a student for his or her image or voice to be transmitted live via videoconference or streaming media, but all students should be informed when courses are to be conducted using either method of delivery.
2. In the event an instructor records student presentations, he or she must obtain permission from the student using a signed release in order to use the recording for future classes in accordance with the Use of Student-Created Work guidelines above.
3. Instructors who video-record their class lectures with the intention of re-using some or all of recordings for future class offerings must notify students on the course syllabus if students' images may appear on video. Instructors are also advised to provide accommodation for students who do not wish to appear in class recordings.

Example: This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings.

No notification is needed if only audio and slide capture is used or if the video only records the instructor's image. However, the instructor is encouraged to let students know the recordings will be available to them for study purposes.

Academic Support & Student Services

Student Support Services

Mental Health

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- [Student Health and Wellness Center](https://studentaffairs.unt.edu/student-health-and-wellness-center)
(<https://studentaffairs.unt.edu/student-health-and-wellness-center>)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (<https://studentaffairs.unt.edu/counseling-and-testing-services>)
- [UNT Care Team](https://studentaffairs.unt.edu/care) (<https://studentaffairs.unt.edu/care>)
- [UNT Psychiatric Services](https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
(<https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry>)
- [Individual Counseling](https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling)
(<https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling>)

Chosen Names

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- [UNT Records](#)
- [UNT ID Card](#)
- [UNT Email Address](#)
- [Legal Name](#)

**UNT eUIDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.*

Pronouns

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns.

Below is a list of additional resources regarding pronouns and their usage:

- [What are pronouns and why are they important?](#)
- [How do I use pronouns?](#)
- [How do I share my pronouns?](#)
- [How do I ask for another person's pronouns?](#)
- [How do I correct myself or others when the wrong pronoun is used?](#)

Additional Student Support Services

- [Registrar](https://registrar.unt.edu/registration) (<https://registrar.unt.edu/registration>)
- [Financial Aid](https://financialaid.unt.edu/) (<https://financialaid.unt.edu/>)
- [Student Legal Services](https://studentaffairs.unt.edu/student-legal-services) (<https://studentaffairs.unt.edu/student-legal-services>)
- [Career Center](https://studentaffairs.unt.edu/career-center) (<https://studentaffairs.unt.edu/career-center>)
- [Multicultural Center](https://edo.unt.edu/multicultural-center) (<https://edo.unt.edu/multicultural-center>)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (<https://studentaffairs.unt.edu/counseling-and-testing-services>)
- [Pride Alliance](https://edo.unt.edu/pridealliance) (<https://edo.unt.edu/pridealliance>)
- [UNT Food Pantry](https://deanofstudents.unt.edu/resources/food-pantry) (<https://deanofstudents.unt.edu/resources/food-pantry>)

Academic Support Services

- [Academic Resource Center](https://clear.unt.edu/canvas/student-resources) (<https://clear.unt.edu/canvas/student-resources>)
- [Academic Success Center](https://success.unt.edu/asc) (<https://success.unt.edu/asc>)
- [UNT Libraries](https://library.unt.edu/) (<https://library.unt.edu/>)
- [Writing Lab](http://writingcenter.unt.edu/) (<http://writingcenter.unt.edu/>)

DTSC 4050: Statistical Methods for Data Science and Analysis (Fall 2026)

Instructor Contact

Name: Ting Xiao, Ph.D.

Office Location: Discovery Park E296C

Office Hours: Monday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/my/tingxiao>

Email: Ting.Xiao@unt.edu

TA Contact

Name: Jenny Liang

Office Location: Discovery Park E292J

Office Hours: Tuesday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/j/7976304931?pwd=xYgONJmWyjqdNTgofwWn4jZbLSAzp2.1>

Email: ZhenniLiang@my.unt.edu

Name: Haoxuan Zhang

Office Location: Discovery Park E292J

Office Hours: Wednesday 2:00 - 4:00 pm

Zoom URL: <https://unt.zoom.us/j/2570125352?pwd=zazSlptPddh43yd7lxTDXG3qMuOaVL.1>

Email: HaoxuanZhang@my.unt.edu

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