Statistics revolutionized the way we have viewed and interacted with the world since the 20th century. From industrial quality control to psychometric assessment to design of experiments, statistical analysis is a key factor to advances in the quality of life we enjoy today. Statistical methods are also foundational to machine learning and AI that are shaping the 21st century. Statistics can sometimes seem like a hodge-podge collection of analytical methods. In a way, that is true. There may be several reasonable ways to tackle a problem, giving somewhat different answers. Statistics is the art of selecting the best approach. This course introduces the art and science of statistics, exploring fundamental statistical concepts and their contemporary applications. The applications explored will include “hands-on” examples of common statistical methods.

Statistics provides the opportunity to combine creativity with analytical thinking. I hope that you enjoy this opportunity.

Welcome to ADTA 5620 – Applied & Computational Statistics!

Instructor

Dr. Michael Monticino is Chair of the UNT Advanced Data Analytics program, Director of the Interdisciplinary Program in Analytics & Computation Science, and a professor in the Department of Mathematics. He has served in many leadership roles as a university administrator and in private industry. He was previously President of Academic Analytics LLC, a leading provider of business intelligence solutions for U.S. research universities. He was UNT Vice President of Advancement, Dean of the College of Arts and Sciences, and Dean of the Toulouse Graduate School, and Interim Chair of the Department of Physics.

Dr. Monticino has worked with a wide variety of companies and government agencies. He has worked as a consultant for the U.S. Navy, ABC Television, the Institute for Defense Analysis, IBM, Lockheed Martin, and Accenture to achieve tactical, operational and management solutions for clients. His areas of technical expertise include statistical decision analysis, optimal resource allocation, data analytics, and operations research.

He has also led numerous community engagement and economic development activities, including national security symposia and technology summits promoting business and R&D collaborations.
between Mexican and U.S. companies. Dr. Monticino is founder and past chair of the Dallas Regional Chamber’s Business University Roundtable, founder and past chair of the Mathematical Association of America's Business, Industry and Government Special Interest Group, an advisor at the Dallas Entrepreneur Center and on the Advisory Board for The Study – City of Irving Innovation Center. He earned a bachelor’s degree in mathematics from the University of Florida and a Ph.D. in mathematics from the University of Miami.

Instructor Contact Information

Instructor: Dr. Michael Monticino
Course Support: Will meet via Zoom/Teams by appointment
Email: michael.monticino@unt.edu

Course Description
This course introduces fundamental concepts of statistics: Bayesian and classical inference, parameter estimation, hypothesis testing, significance testing, maximum a posteriori probability rules, least mean squares estimation, maximum likelihood, regression, likelihood ratio tests, bootstrapping methods. The course focuses on applications of statistical methods to addressing important problems in business, science and industry.

Course Objectives
By the end of the course, students should be able to:

- Articulate foundational statistical principles and apply them to new problems.
- Select and implement the appropriate method(s) to solve statistical problems in science, business, and industry.
- Describe and apply the main concepts and assumptions underlying classical and Bayesian inference, as well as computational based approaches.
- Calculate and interpret parameter estimates and hypothesis tests values.
- Apply classical methods to determine parameter estimates for location and dispersion, estimate bias, determine confidence intervals, and apply hypothesis tests.
- Apply Bayesian methods to determine posterior distributions, point estimates, confidence sets, hypothesis tests, regression models, and multiple imputation methods.
- Apply bootstrapping methods to determine parameter estimates, linear regression solutions, hypothesis tests, and significance tests.
- Understand and apply Monte Carlo methods to determine statistical parameter estimates, confidence intervals, and posterior distributions.
- Effectively communicate analysis results and insights verbally and in writing, presenting methods in a business context and deriving actionable insights.
- Apply statistical methods to address business problems from real world case studies.
Required & Recommended Materials

Textbook (available online free):


Software

Some assignment problems will involve simulation or complex calculations. These may be easiest to perform with a programming language like Python, but can be tackled with Excel. So, at minimum you need to have access to a computer with MS 2016 Office Suite. If you do not have this version, you can access Office 365 via a UNT student email account.

Course Structure

Course content will be grouped in 3 primary modules: Classical Inference, Bayesian Inference, and Bootstrapping Methods. Other topics may be discussed based on course pace. Content will be added to each module as we progress through the topics.

Assessment is based on assignments focused upon building fundamental understanding and facility in applying statistical concepts. Additionally, there will be a team project involving industry data.

Due dates and instructions for submitting assignments will be posted on the Course Calendar and announced in class. Keep copies of everything you submit.

Overall Expectations

1. Students will attend class meetings and participate in discussions.
2. Students will be responsible for checking course announcements in Canvas and checking course email daily.
3. Students will complete weekly readings and assigned work by stated deadlines.
4. Students will be responsible for downloading data used for projects as directed.
5. Students will be responsible for obtaining software required for completing assigned work as directed.
6. All work on assignments (excluding team project) is expected to be your original work

Graded assignments should:

• Present sufficient detail on the derivation of the answers given. Minimal credit will be given for just providing a “final” answer.
• Provide derivations that are clearly developed, and which proceed logically to the final solution of the problem.
• Be legible and complete within one document (appendices may be used if applicable).
• Demonstrate mastery of the technical aspects of the analysis methods applied.
• Demonstrate higher-order thinking, interpreting solutions in the wider context of similar problems.
Specific grading guidelines will be provided for each assignment.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Deliverable</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1 – Classical Inference</td>
<td>Clear, complete derivations of solutions and descriptions/analysis of results.</td>
<td>100</td>
</tr>
<tr>
<td>Assignment 2 – Bayesian Inference</td>
<td>Clear, complete derivations of solutions and descriptions/analysis of results.</td>
<td>100</td>
</tr>
<tr>
<td>Assignment 3 – Bootstrapping &amp; Comparison to Classical &amp; Bayesian Methods</td>
<td>Clear, complete derivations of solutions and descriptions/analysis of results.</td>
<td>100</td>
</tr>
<tr>
<td>Assignment 4 – Handling Missing Data</td>
<td>Clear, complete derivations of solutions and descriptions/analysis of results. Involves use of statistical computational tools (SAS, SPSS, or Python)</td>
<td>50</td>
</tr>
<tr>
<td>Team Project – Application of Course Material to Business Application</td>
<td>Presentation/report providing EDA, model descriptions, analysis results, and conclusions.</td>
<td>100* Scope and point value of project may vary depending on pace/status of course</td>
</tr>
</tbody>
</table>

**Grading**

Final grades will be based solely on class participation and performance on assignments & project.

The total number of points received on assignments will be divided by the total possible number of points. Your final grade will be assigned based on this average and the standard 10 point grading scale (100 - 90, A; 89 - 80, B; 79 - 70, C; 69 - 60, D; 59 - 0, F).

**Course Policies**

**Late Work**

No late assignments will be accepted without prior agreement between instructor and student.

**Class Participation**

It is expected that students actively participate in discussions during class (remote & F2F) sessions. This includes reading assigned materials before class sessions, completing questions/problems posed in class or through Canvas, and asking questions on topics that are not clear.
**Attendance Policy**
It is expected that students attend class sessions – F2F and remote sessions. If you anticipate not being able to attend a class session, it is your responsibility to inform me.

**Calendar**
Tentative calendar: Topics may be adjusted to accommodate pace/status of course. Likewise, assignment deadlines will be set and announced based on pace of course.

<table>
<thead>
<tr>
<th>Module</th>
<th>Dates</th>
<th>Topics</th>
<th>Readings</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classical Inference</td>
<td>Week of 1/16/23</td>
<td>Introduction, classical parameter estimation (point estimators)</td>
<td>Textbook: Section 9.1</td>
<td></td>
</tr>
<tr>
<td>Classical Inference</td>
<td>Week of 1/23/23</td>
<td>Maximum likelihood estimators, interval estimation</td>
<td>Textbook: Section 9.1</td>
<td>Assignment Set 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Due 2/19/23</td>
</tr>
<tr>
<td>Classical Inference</td>
<td>Week of 1/30/23</td>
<td>Interval estimation, hypothesis and significance testing</td>
<td>Textbook: Sections 9.3, 9.4</td>
<td></td>
</tr>
<tr>
<td>Classical Inference</td>
<td>Week of 2/6/23</td>
<td>Hypothesis and significance testing, linear regression</td>
<td>Textbook: Sections 9.3, 9.4, 9.2</td>
<td></td>
</tr>
<tr>
<td>Classical Inference</td>
<td>Week of 2/13/23</td>
<td>Methods for handling missing data – Part 1</td>
<td>Supplemental material</td>
<td>(Tentative)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Team Project Kick-off</td>
</tr>
<tr>
<td>Bayesian Inference</td>
<td>Week of 2/20/23</td>
<td>Introduction, Bayesian inference, posterior distributions</td>
<td>Textbook: Section 8.1</td>
<td>Assignment Set 2</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Due 4/2/23</td>
</tr>
<tr>
<td>Bayesian Inference</td>
<td>Week of 2/27/23</td>
<td>Point estimates, maximum a posteriori (MAP) and maximum likelihood (ML) estimates</td>
<td>Textbook: Section 8.2</td>
<td></td>
</tr>
<tr>
<td>Bayesian Inference</td>
<td>Week of 3/6/23</td>
<td>Point estimates, conditional expectation, mean squared error, interval estimates</td>
<td>Textbook: Sections 8.2, 8.3</td>
<td></td>
</tr>
<tr>
<td>Topic</td>
<td>Week of</td>
<td>Content</td>
<td>Supplemental Material</td>
<td>Assignment Set Due Date</td>
</tr>
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<td>-------------------------------</td>
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<tr>
<td>Spring Break</td>
<td>3/13/23</td>
<td></td>
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<tr>
<td>Bayesian Inference</td>
<td>3/20/23</td>
<td>Hypothesis testing, Bayes rule, Bayes factor, minimum cost</td>
<td>Textbook: Sections 8.2, 8.3</td>
<td></td>
</tr>
<tr>
<td>Bayesian Inference</td>
<td>3/27/23</td>
<td>Bayesian regression</td>
<td>Textbook: Sections 8.4</td>
<td></td>
</tr>
<tr>
<td>Bayesian Inference</td>
<td>4/3/23</td>
<td>Methods for handling missing data – Part 2</td>
<td>Supplemental material</td>
<td></td>
</tr>
<tr>
<td>Bootstrap Methods</td>
<td>4/10/23</td>
<td>Introduction to bootstrapping, and estimation</td>
<td>Supplemental material</td>
<td>Assignment Set 3 Due 4/30/23</td>
</tr>
<tr>
<td>Bootstrap Methods</td>
<td>4/17/23</td>
<td>Bootstrapping confidence sets and hypothesis testing</td>
<td>Supplemental material</td>
<td></td>
</tr>
<tr>
<td>Bootstrap Methods</td>
<td>4/24/23</td>
<td>Methods for handling missing data – Part 3</td>
<td>Supplemental material</td>
<td>Assignment Set 4 Due 5/11/23</td>
</tr>
<tr>
<td>Other Topics</td>
<td>5/1/23</td>
<td>TBD, depending on course progress</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final class meeting (final exam period)</td>
<td>5/8/23</td>
<td>Final Project Presentation*</td>
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</tr>
</tbody>
</table>
Welcome to UNT!
As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT’s full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Rules of Engagement

Rules of engagement refer to the way students are expected to interact with each other and with their instructors. Here are some general guidelines:

- 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.
- 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 individual’s experiences.
- Avoid using all caps while communicating digitally. This may be interpreted as “YELLING!”
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using “text-talk” unless explicitly permitted by your instructor.
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type.

See these Engagement Guidelines (https://clear.unt.edu/online-communication-tips) for more information.

Online Course System

The University is committed to providing a reliable online course system to all users. However, 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 (https://www.unt.edu/helpdesk)
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-
UNT Policies

Academic Integrity Policy
According to UNT 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 reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the ODA website (https://disability.unt.edu/).

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)
The University of North Texas (UNT) prohibits discrimination and harassment because 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 in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

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) 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).

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 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/) 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/). 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).

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.

4. 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.

Class Recordings & Student Likenesses
In case synchronous (live) sessions in this course will be recorded for students enrolled in this class section to refer to throughout the semester: Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

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)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- UNT Care Team (https://studentaffairs.unt.edu/care)
- 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. You can add your pronouns to your Canvas account so that they follow your name when posting to discussion boards, submitting assignments, etc.

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)
- Financial Aid (https://financialaid.unt.edu)
- Student Legal Services (https://studentaffairs.unt.edu/student-legal-services)
- Career Center (https://careercenter.unt.edu)
- Multicultural Center (https://idea.unt.edu/multicultural-center)
- Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
- Pride Alliance (https://idea.unt.edu/pridealliance)
- UNT Food Pantry (https://studentaffairs.unt.edu/food-pantry)

Academic Support Services

- Academic Resource Center (https://clear.unt.edu/canvas/student-resources)
- Academic Success Center (https://success.unt.edu/asc)
- UNT Libraries (https://library.unt.edu)
- Writing Center (https://writingcenter.unt.edu)
- Math Lab (https://learningcenter.unt.edu/math-lab)

Emergency Notification and 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.