

MATH 2700.210 LINEAR ALGEBRA (Fall 2023)

Instructor Contact

Instructor: H. Tran, Ph.D.

Office Location: GAB 421

Office Hours: MWF 11:00am – 1:00pm

Course Meets: MWF 8am-8:50am BLB 255

Email: Huguette.Tran@unt.edu

Communication Expectations: I prefer to communicate with my students on class-related matters through Canvas.

Course Description

3 hours. Vector spaces over the real number field; applications to systems of linear equations and analytic geometry in \mathbb{R}^n , linear transformations, matrices, determinants and eigenvalues.

Prerequisite(s): A grade of C or higher in MATH 1720.

Required Text/Materials

Textbook: Linear Algebra and Its Applications by Lay, Lay, McDonald, 6th Edition. The ebook version is available for a steep discount.

Grading

Homework – 15%

Attendance - 5%

Quizzes – 20% (on most Mondays)

2 Midterm Exams (M 10/02/2023, M 12/04/2023)

and Final Exam (Monday 12/11/2023 at 8:am)

Late work will not be accepted in this course regardless of the reason.

Course Structure

This course will meet in person 4 times per week. There will be regular homework, 2 midterm exams, and quizzes.

Homework

Each week there will be homework that you will be submitted on Canvas. Your lowest one (1) HW score will be dropped to account for occasional illness or emergency.

Quizzes

There will also be a quiz each week covering the material from the prior week (i.e. over the homework you are submitting that week). Your lowest one (1) quiz score will be dropped to account for occasional illness or emergency.

Exams

There will be 2 midterm exams administered in person during lecture. There are NO remote/online options for exams. Under no circumstances will early or make up tests will be given. Travel plans are not valid excuses for not taking the final at its scheduled time. You may use the lowest of Attendance, Homework Average, Quiz Average, Test 1, and Test 2 as your missing test grade.

You may ask me to go over exam problems with you. However, **all decisions on partial credit are final and not open for discussion.**

Attendance

Attendance is important and required. In this class, this means looking alive in class and working through the examples in lecture and recitation as we go. It is assumed you will do this. The instructor will not repeat whole lectures or offer personal lessons in office hours or email. These venues are for specific questions / problems.

Attendance

There are several ways to contact me.

1. If you have a question about a specific homework problem, come to my office hours.

That means you should not wait until the last minute to do your homework.

2. If you have a general question or concern, please send me a Canvas message or an email with "MATH 2700.003" in the subject line. To protect your privacy, questions about your academic performance must come from your UNT email account

Classroom Policy

During class time (including exams) students are forbidden to have on the table or use electronic devices such as laptop computers, tablets, iPads and the like, Blackberries, cell phones, Bluetooth devices, or anything that uses headphones, earphones, ear buds or the like (except in special cases where students have verified disabilities that require such devices). If you do not comply with this policy, you will be marked absent.

It is important to communicate the basic expectations in order to remove any ambiguity and excuse. Students should know that I will demand mature and courteous behavior and will not tolerate behavior that is disrespectful, rude, or otherwise disruptive, in any way, to the dissemination and/or exchange of information.

I reserve the right to deduct points in the event that you do not comply with these expectations, in addition to other disciplinary consequences associate to the UNT student codes of conduct.

- Turn cell phones and other electronic devices off before you enter the classroom), keep them off, and do not get them out during class. Any cell phone or electronic device nonsense will result in your being marked absent.
- Students are expected to come to class on time. If you come to class at least 10 minutes late, you will be marked absent. If you know that on occasion you will be late, then you should speak to me about it. Recall that quizzes will be administered and homework collected at the beginning of class.
- Students are expected to remain for the entire class period. If you leave the classroom at least 10 minutes, you will be marked absent.

Course Prerequisites or Other Restrictions

- Officially, the prerequisite is a grade of C or higher in MATH 1720.
- A willingness to put in several hours of work each week to absorb each the material in each module. In math courses, especially this one, the content will build upon itself making it very difficult to catch up if you fall behind

Academic Dishonesty

Cheating will not be tolerated. Any student found cheating will receive no credit on the assignment and a report will be filed with the office of academic integrity.

Course Objectives

Math 2700 contributes to the following mathematics undergraduate program objectives:

Mathematical Reasoning

- MR 1. Read, understand, formulate, explain, and apply mathematical statements.
 MR 2. Formulate conjectures by considering examples that move from the specific to the general.
 MR 3. Distinguish between valid and fallacious arguments.
 MR 4. State and apply important results in key mathematical areas, with the ability to provide proof-based arguments of these and related results.
 MR 5. Use a variety of techniques – such as, mathematical induction, proof by contradiction, or direct application of axioms and previously proven theorems – to prove propositions.

Applying Mathematics

- AM 1. Demonstrate knowledge of problem-formulation, problem solving, and modeling techniques central to applications of mathematics.
 AM 3. Represent functional relationships using numerical, graphical, and/or analytic/symbolic means.

General skills

- GS 1. Solve mathematical problems individually and cooperatively.
 GS 2. Formulate strategies for solving novel analytical – both theoretical and applied – problems.
 GS 3. Communicate, both verbally and in writing, mathematical ideas at a variety of levels from technical

Where to Get Help

Instructors' Office Hours: Your professor is here to help you learn. You are encouraged to take full advantage of my office hours. No appointment is necessary to see me during my regularly scheduled office hours. If you cannot make the regularly scheduled office hours, ask for an appointment for another time.

Tentative Schedule

	Week 1 : Systems of Linear Equations, Row Reduction and Echelon Forms, and Vector Equations	
Mon	8/21/2023	Section 1.1 : Systems of Linear Equations
Wed	8/23/2023	Section 1.2 : Row Reduction and Echelon Forms
Fri	8/25/2023	Section 1.3 : Vector Equations
	Week 2 : The Matrix Equation $Ax=b$, Solution Sets of Linear Equations	
Mon	8/28/2023	Section 1.4 : The Matrix Equation $Ax=b$
Wed	8/30/2023	Section 1.5 : Solution Sets of Linear Systems
Fri	9/1/2023	Section 1.6 : Applications of Linear Systems
	Week 3 : Applications of Linear Systems, Linear Independence, Introduction to Linear Transformations	
Mon	9/4/2023	LABOR DAY
Wed	9/6/2023	Section 1.7 : Linear Independence
Fri	9/8/2023	Section 1.8: Introduction to Linear Transformations
	Week 4 : The Matrix of a Linear Transformation, Matrix Operations, The Inverse of a Matrix	
Mon	9/11/2023	Section 1.9: The Matrix of Linear Transformations
Wed	9/13/2023	Section 2.1 : Matrix Operations
Fri	9/15/2023	Section 2.2 : The Inverse of a Matrix
	Week 5: Characterizations of Invertible Matrices , Partitioned Matrices and Matrix Factorization	
Mon	9/18/2023	Section 2.3 : Characterizations of Invertible Matrices
Wed	9/20/2023	Section 2.4 : Partitioned Matrices
Fri	9/22/2023	Section 2.5 : Matrix Factorization
	Week 6 : The Leontif Input-Output Model, Subspaces, and Dimension and Rank	
Mon	9/25/2023	Section 2.6 : The Leontif Input-Output Model

Wed	9/27/2023	Section 2.8 : Subspaces
Fri	9/29/2023	Section 2.9 : Dimension and Rank
Week 7 : Introduction to Determinants, and Properties of Determinants		
Mon	10/2/2023	EXAM 1
Wed	10/4/2023	Section 3.1 : Introduction to Determinants
Fri	10/6/2023	Section 3.2 : Properties of Determinants
Week 8: Cramer's Rule, Inverses and Determinants through Partitioned Matrices		
Mon	10/9/2023	Section 3.3 : Cramer's Rule, Volume, and Linear Transformations
Wed	10/11/2023	Sections 2.2, 2.4, 3.1, 3.2: Inverse and Determinants Using Patitioned Matrices
Fri	10/13/2023	Sections 2.2, 2.4, 3.1, 3.2: Inverse and Determinants Using Patitioned Matrices
Week 9: Vector Spaces, Null, Column, and Row Spaces, and Linear Independent Sets and Bases		
Mon	10/16/2023	Section 4.1: Vector Spaces and Subspaces
Wed	10/18/2023	Section 4.2: Null Spaces, Column Spaces and Row Spaces
Fri	10/20/2023	Section 4.3: Linear Independent Sets and Bases
Week 10: Coordinate Systems, Dimensions of a Vector Space, and Change of Basis		
Mon	10/23/2023	Section 4.4: Coordinate Systems
Wed	10/25/2023	Section 4.5: Dimension of a Vector Space
Fri	10/27/2023	Section 4.6: Change of Basis
Week 11: Applications to Difference Equations, Eigenvalues and Eigenvectors, and the Characteristic Equation		
Mon	10/30/2023	Section 4.8: Applications to Difference Equations (OPT)
Wed	11/1/2023	Section 5.1: Eigenvalues and Eigenvectors
Fri	11/3/2023	Section 5.2: The Characteristic Equation
Week 12: Diagonalization and Discrete Dynamical System		
Mon	11/6/2023	Section 5.3: Diagonalization
Wed	11/8/2023	Section 5.6: Discrete Dynamical System
Fri	11/10/2023	
Week 13: Dot Product, Orthogonality and Applications		
Mon	11/13/2023	Section 6.1: Inner Product, Length, and Orthogonality
Wed	11/15/2023	Section 6.2: Orthogonal Sets
Fri	11/17/2023	Section 6.3: Orthogonal Projection
Week 14: THANKSGIVING BREAK		
Mon	11/20/2023	
Wed	11/22/2023	THANKSGIVING
Fri	11/24/2023	
Week 15: Orthogonal Projection and The Gram-Schmidt Process		
Mon	11/27/2023	Section 6.3: Orthogonal Projection
Wed	11/29/2023	Section 6.4: The Gram-Schmidt Process
Fri	12/1/2023	***
Week 16: Pre-Final Week		
Mon	12/4/2023	EXAM 2
Wed	12/6/2023	PreFinal Day
Fri	12/8/2023	
Final Exam Week		
Mon	12/11/2023	Final Exam at 8:am

Technical Requirements & Skills

Minimum Technology Requirements

- Access to a computer, tablet, or laptop that is compatible with all required apps for the course
- Access to reliable internet

Technical Skills & Digital Literacy

- Navigate Canvas
- Scan documents and create pdf files (there are several free scanning apps for phones / tablets like Adobe Scan or Office Lens)
- Upload documents to Canvas

Summary of Key Dates – Fall 2023:

August 21, Monday

Classes begin.

August 25, Friday

Last day for change of schedule other than a drop. (Last day to add a class.)

September 1, Tuesday

Last day to drop a course section to no longer appear on the official transcript.

September 29, Friday

Last day to change to pass/no pass

November 10, Friday

Last day to drop a course

November 11, Saturday

Beginning this date, a student may request a grade of "I", incomplete, a non-punitive grade given only if a student (1) is passing, (2) has justifiable reason why the work cannot be completed on schedule; and (3) arranges with the instructor to complete the work.

December 8, Friday

Reading day; no class

December 9, Saturday – December 15, Friday

Final examinations. Terms ends.

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.
- Use your critical thinking skills to challenge other people’s ideas, instead of attacking individuals.
- 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) (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) (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-10554-4212710328) (https://community.canvaslms.com/docs/DOC-10554-4212710328)

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 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/).

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 \(https://deanofstudents.unt.edu/conduct\)](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 e-mail [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.

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. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. 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) (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.

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/) (<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://idea.unt.edu/multicultural-center) (<https://idea.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://idea.unt.edu/pridealliance) (<https://idea.unt.edu/pridealliance>)
- [UNT Food Pantry](https://studentaffairs.unt.edu/food-pantry) (<https://studentaffairs.unt.edu/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 Center](https://writingcenter.unt.edu/) (<https://writingcenter.unt.edu/>)
- [Math Lab](https://learningcenter.unt.edu/math-lab) (<https://learningcenter.unt.edu/math-lab>)

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