The world (at least the interesting part) inherently involves uncertainty. Random phenomena surround us – from biologic evolution to financial markets. Individuals and organizations spend significant effort and resources battling this uncertainty. In fact, this is the primary reason we gather and analyze data – to reduce or quantify uncertainty. This course is an introduction to probability modeling, including the theoretical foundations of the models and their real-world applications. The foundational concepts provide the structure and understanding to apply the models we will study. The applications examined will provide “hands-on” examples of common probability tools.

Probability is my favorite analytical topic and the application of probability models has occupied a large portion of my professional career. I hope that you will find the topic as interesting (and fun) as I do.

Welcome to MATH 5810 – Probability & 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. Most recently, he was President of Academic Analytics LLC, a leading provider of business intelligence solutions for U.S. research universities. Previously, he was UNT Vice President of Advancement, Dean of the College of Arts and Sciences, and Dean of the Toulouse Graduate School, and (recently) 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  
Email: michael.monticino@unt.edu  
Office hours: Friday 9 – 11:00 (via Zoom), and by appointment.

**Course Description**

This course introduces fundamental concepts of probability: axioms, conditional probability, independence, discrete and continuous random variables, stochastic processes, laws of large numbers, central limit theorem, and Bayesian and classical inference. The course focuses on applications of probabilistic modeling to addressing important problems in business, science and industry.

**Course Objectives**

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

- Articulate foundational principles of probability and apply them to new problems.
- Calculate probabilities of events using counting techniques.
- Apply the concepts of independence and conditional probability to model and solve problems.
- Use appropriate random variables to model and solve frequently encountered problems in business and industry.
- Formulate simple dynamical systems as stochastic processes and analyze their behavior.
- Articulate and apply the laws of large numbers and the Central Limit Theorem.
- Describe and apply the main concepts and assumptions underlying Bayesian and classical inference.
- Effectively communicate analysis results and insights verbally and in writing, presenting models in a business context and deriving actionable insights.
- Apply probability models to address business problems from real world case studies.

**Required & Recommended Materials**


Software
Simulation projects will 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 Requirements
The course is organized around homework and real-world modeling projects. The homework is intended to build understanding and facility in applying probability concepts. The projects will challenge students to apply concepts to a business/industry setting, as well as build professional skills. There will be an analysis report associated with each project.

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

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

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.

Analysis reports and presentations should:
- Demonstrate mastery of technical aspects of analysis methods applied.
- Be clear and concise.
- Follow proper formatting, grammar and punctuation for written reports.
- Be well organized and delivered convincingly for presentations.
- Demonstrate higher-order thinking (for example, going beyond the strict requirements of the project).

Specific grading rubrics will be provided for each analysis report.

Homework 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 presented and proceed logically to the final answer for the problem.
- Be legible.
<table>
<thead>
<tr>
<th>Assignment</th>
<th>Deliverable</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework set 1 (Chapter 1)</td>
<td>Written solutions to exercises.</td>
<td>100</td>
</tr>
<tr>
<td>Project 1 – Gambler’s Ruin</td>
<td>Report providing simulation description, analysis results, and conclusions.</td>
<td>100</td>
</tr>
<tr>
<td>Homework set 2 (Chapter 2)</td>
<td>Written solutions to exercises.</td>
<td>100</td>
</tr>
<tr>
<td>Project 2 – Going Broke (or not) in Retirement</td>
<td>Report providing model and simulation description, analysis results, and conclusions.</td>
<td>100</td>
</tr>
<tr>
<td>Homework set 3 (Chapter 3)</td>
<td>Written solutions to exercises.</td>
<td>100</td>
</tr>
<tr>
<td>Project 3 – Portfolio Survival &amp; Optimization</td>
<td>Report providing model and simulation description, analysis results, and conclusions.</td>
<td>100</td>
</tr>
<tr>
<td>Homework set 4 (Stochastic processes topics)</td>
<td>Written solutions to exercises.</td>
<td>100</td>
</tr>
<tr>
<td>Project 4 – Application of Stochastic Processes</td>
<td>Report providing model description, simulation description, 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, homework, and project performance.

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).
## Calendar

Tentative calendar: Topics and assignment deadlines may adjust to accommodate pace/status 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>Probability Fundamentals</td>
<td>Week of 8/24/20</td>
<td>Probability and uncertainty, sample space, axioms, equally likely events, counting</td>
<td>Textbook: Sections 1.1, 1.2, 1.6</td>
<td>Homework Set 1 Solutions due 9/13/20</td>
</tr>
<tr>
<td>Probability Fundamentals</td>
<td>Week of 8/31/20</td>
<td>Independence, conditional probability, Bayes Theorem</td>
<td>Textbook: Sections 1.3, 1.4, 1.5</td>
<td></td>
</tr>
<tr>
<td>Probability Fundamentals</td>
<td>Week of 9/7/20</td>
<td>Wrap-up of fundamentals &amp; Introduction to the concept of Monte Carlo simulation</td>
<td>Textbook: Section 1.6, problem review, Section 2.1</td>
<td>Project 1 Report due 9/20/20</td>
</tr>
<tr>
<td>Discrete Random Variables</td>
<td>Week of 9/14/20</td>
<td>Introduction to discrete random variables, probability mass functions, functions of random variables</td>
<td>Textbook: Sections 2.1, 2.2, 2.3</td>
<td>Homework Set 2 Solutions due 10/4/20</td>
</tr>
<tr>
<td>Discrete Random Variables</td>
<td>Week of 9/21/20</td>
<td>Expectation, variance, multiple random variables, joint pmf's</td>
<td>Textbook: Sections 2.4, 2.5</td>
<td>Project 2 Report due 10/11/20</td>
</tr>
<tr>
<td>Discrete Random Variables</td>
<td>Week of 9/28/20</td>
<td>Conditioning, independence</td>
<td>Textbook: Sections 2.6, 2.7</td>
<td></td>
</tr>
<tr>
<td>Continuous Random Variables</td>
<td>Week of 10/5/20</td>
<td>Introduction to continuous random variables, pdf's, cdf's</td>
<td>Textbook: Sections 3.1, 3.2</td>
<td>Homework Set 3 Solutions due 11/8/20</td>
</tr>
<tr>
<td>Continuous Random Variables</td>
<td>Week of 10/12/20</td>
<td>Important continuous random variables, expectation, variance</td>
<td>Textbook: Sections 3.1, 3.2, 3.3</td>
<td>Project 3 Report due 11/15/20</td>
</tr>
<tr>
<td>Continuous Random Variables</td>
<td>Week of 10/19/20</td>
<td>Multiple random variables, joint pdf’s,</td>
<td>Textbook: Sections 3.1, 3.2, 3.3</td>
<td></td>
</tr>
<tr>
<td>Further Topics on Random Variables</td>
<td>Week of 10/26/20</td>
<td>Independence, covariance, correlation</td>
<td>Textbook: Sections 4.1, 4.2</td>
<td></td>
</tr>
<tr>
<td>Topic</td>
<td>Dates</td>
<td>Topic Details</td>
<td>Supplemental Material</td>
<td>Notes</td>
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<tr>
<td>Further Topics on Random Variables</td>
<td>Week of 11/2/20</td>
<td>Application to portfolio optimization, law of large numbers, central limit theorem</td>
<td>Textbook: Sections 5.4, 5.5</td>
<td></td>
</tr>
<tr>
<td>Introduction to Stochastic Processes</td>
<td>Week of 11/9/20</td>
<td>TBD</td>
<td>Textbook: Sections TBD Supplemental material</td>
<td>Homework 4 Solutions due 12/6/20</td>
</tr>
<tr>
<td>Introduction to Stochastic Processes</td>
<td>Week of 11/16/20</td>
<td>TBD</td>
<td>Textbook: Sections TBD Supplemental material</td>
<td>Project 4 Report due 12/8/20</td>
</tr>
<tr>
<td>Applications of Stochastic Processes</td>
<td>Week of 11/23/20</td>
<td>TBD</td>
<td>Textbook: Sections TBD Supplemental material</td>
<td></td>
</tr>
<tr>
<td>Applications of Stochastic Processes</td>
<td>Week of 11/30/20</td>
<td>TBD</td>
<td>Textbook: Sections TBD Supplemental material</td>
<td></td>
</tr>
<tr>
<td>Final class meeting (final exam time)</td>
<td>December 7</td>
<td>Wrap-up</td>
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</tr>
</tbody>
</table>
STUDENT TECHNICAL SUPPORT

The University of North Texas UIT Student Helpdesk provides student technical support in the use of Canvas and supported resources. The student help desk may be reached at:

Email: helpdesk@unt.edu
Phone: 940.565-2324
In Person: Sage Hall, Room 130

Business hours are:
- Monday-Thursday 8am-midnight
- Friday 8am-8pm
- Saturday 9am-5p
- Sunday 8am-midnight

ACCESS & NAVIGATION

Access and Log in Information
This course was developed and will be facilitated utilizing the University of North Texas’ Canvas. To get started with the course, please go to the website at https://canvas.unt.edu
You will need your EUID and password to log in to the course. If you do not know your EUID or have forgotten your password, please go to the website at http://ams.unt.edu.

TECHNICAL REQUIREMENTS / ASSISTANCE

The following information has been provided to assist you in preparation for the technological aspect of the course.

UIT Help Desk: http://www.unt.edu/helpdesk/index.htm
Web Browser
Word Processor
Creating and submitting files in Microsoft Office, the standard software for this course

Minimum Technical Skills Needed:
- Using the learning management system
- Using email with attachments
- Copying and pasting
- Downloading and installing software
- Using spreadsheet programs

COVID-19 Impact on Attendance
While attendance is expected as outlined above, it is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. It is important that you communicate with me prior
to being absent so I may make a decision about accommodating your request to be excused from class.

If you are experiencing any symptoms of COVID-19 (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Hotline at 844-366-5892 or COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure. While attendance is an important part of succeeding in this class, your own health, and those of others in the community, is more important.

Remote Instruction after November 28th, 2020
The UNT fall schedule requires this course to have fully remote instruction beginning November 28th. Additional remote instruction may be necessary if community health conditions change or you need to self-isolate or quarantine due to COVID-19. Information on how to be successful in a remote learning environment can be found at https://online.unt.edu/learn.

Statement on Face Covering
Face coverings are required in all UNT facilities. Students are expected to wear face coverings during this class. If you are unable to wear a face covering due to a disability, please contact the Office of Disability Access to request an accommodation. UNT face covering requirements are subject to change due to community health guidelines. Any changes will be communicated via the instructor.

ACADEMIC POLICIES

Scholarly Expectations
All works submitted for credit must be original works created by the scholar uniquely for the class. It is considered inappropriate and unethical, particularly at the graduate level, to make duplicate submissions of a single work for credit in multiple classes, unless specifically requested by the instructor. Work submitted at the graduate level is expected to demonstrate higher-order thinking skills and be of significantly higher quality than work produced at the undergraduate level.

Instructor Responsibilities and Feedback
The instructor is responsible for responding to student questions about assignments and projects, about the course material presented, and for providing additional resources to enhance understanding of course material. Timely feedback is essential for student success and the instructor is responsible for providing timely feedback to students throughout the course. The instructor will actively participate in each week’s discussion forum and will provide feedback to students each week regarding their participation. The instructor will grade
submitted assignments and will post grades for students within 10 days of assignment due date.

Virtual Classroom Citizenship
The same guidelines that apply to traditional classes should be observed in the virtual classroom environment. Please use proper netiquette when interacting with class members and the professor as discussed at this link: http://www.albion.com/netiquette/corerules.html.

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) for more information.

Incompletes
This course will observe the UNT policy on incompletes, found here: http://registrar.unt.edu/grades/incompletes

Add/Drop Policy
The University of North Texas Add Drop Policy for Fall 2017 can be found at the following link: http://registrar.unt.edu/registration/fall-add-drop

Policy on Server Unavailability or Other Technical Difficulties
The University is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents
students from completing a time-sensitive assessment activity, the instructor will extend the
time windows and provide an appropriate accommodation based on the situation. Students
should immediately report any problems to the instructor and also contact the UNT Student
Help Desk: helpdesk@unt.edu or 940.565.2324. The instructor and the UNT Student Help Desk
will work with the student to resolve any issues at the earliest possible time.

Copyright Notice
Some or all of the materials on this course Web site may be protected by copyright. Federal
copyright law prohibits the reproduction, distribution, public performance, or public display of
copyrighted materials without the express and written permission of the copyright owner
unless fair use or another exemption under copyright law applies. Additional copyright
information may be located at http://copyright.unt.edu.

Graduate Online Course Attendance Policy
Students are expected to participate actively each week and to meet all deadlines for course
assignments as detailed in the Course Calendar. Information about the University of Texas’
Attendance Policy may be found at http://policy.unt.edu/policy/15-2-5

Administrative Withdrawal
This course will observe the UNT policy on academic withdrawal found here:
https://deanofstudents.unt.edu/withdrawals

Syllabus Change Policy
Changes to the course syllabus or due dates are not anticipated but should they be necessary,
the instructor will provide ample notification to students to allow them to complete assignments
in a timely manner without penalty.

UNT GENERAL POLICIES

Student Conduct and Discipline: Student Handbook.
You are encouraged to become familiar with the University's Policy of Academic dishonesty
found in the Student Handbook. The content of the Handbook applies to this course. If you are
in doubt regarding the requirements, please consult with me before you complete any
requirements of the course.

The UNT Code of Student Conduct can be found here:

ADA Policy
The University of North Texas 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
you with an accommodation letter to be delivered to faculty to begin a private discussion
regarding your specific needs in a course. ... 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. Students are strongly encouraged to deliver letters of 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 Office of Disability Accommodation website at http://disability.unt.edu/. You may also contact them by phone at 940.565.4323.

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 e-mail 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 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/) or email spot@unt.edu.

Sexual Assault Prevention
UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment, sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit 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. UNT’s Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim’s compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.

Important Notice for F-1 Students taking Distance Education Courses:

Federal Regulation


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.

**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.

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**

All the video recordings in this course, including lecture videos and live class activity recordings are for students enrolled in the 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)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services)
- [UNT Care Team](https://studentaffairs.unt.edu/care)
- [UNT Psychiatric Services](https://studentaffairs.unt.edu/student-health-and-wellness-center/services/psychiatry)
- [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](https://studentaffairs.unt.edu/care)
- [UNT ID Card](https://studentaffairs.unt.edu/care)
- [UNT Email Address](https://studentaffairs.unt.edu/care)
- [Legal Name](https://studentaffairs.unt.edu/care)

*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](https://studentaffairs.unt.edu/care) 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?](https://studentaffairs.unt.edu/care)
- [How do I use pronouns?](https://studentaffairs.unt.edu/care)
- [How do I share my pronouns?](https://studentaffairs.unt.edu/care)
- [How do I ask for another person’s pronouns?](https://studentaffairs.unt.edu/care)
- [How do I correct myself or others when the wrong pronoun is used?](https://studentaffairs.unt.edu/care)

**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://studentaffairs.unt.edu/career-center)
• Multicultural Center (https://edo.unt.edu/multicultural-center)
• Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
• Pride Alliance (https://edo.unt.edu/pridealliance)
• UNT Food Pantry (https://deanofstudents.unt.edu/resources/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 Lab (http://writingcenter.unt.edu/)