Course Syllabus



LTEC 3000: Foundations of Learning Technologies in STEM

Instructor Contact

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Communication Expectations

Students are expected to check the Canvas course site every three days. Questions to the instructor should be submitted through email via the Canvas site. Expect a response within 48 hours. Email is not responded to over weekends and holidays.

Under most circumstances, assignments will be scored within a one-week window. Students will be notified if a delay in returning assignments is necessary.

Acquaint yourself with <u>online communication tips (Website)</u> \Rightarrow (https://clear.unt.edu/online-communication-tips) to assist you to communicate with others effectively.

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 no tolerate identity-based discrimination, harassment, and retaliation. UNT's full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Course Description

The LTEC 3000 Foundations of Learning Technologies in STEM was designed to help you view technology as an adaptive system that is made of tools, processes, and applied knowledge that is responsive to human needs and desires. This course focuses on learning across STEM disciplines usi a variety of technologies: cloud computing, mobile devices, MOOCs, virtual labs, etc. Students will lear problem-solving and inquiry skills, and apply them to interpret, aggregate, and create arguments based on evidence. Real-world problems with data-driven and focused outcomes are used to follow a process develop a solution, perform analysis, and communicate findings.

Course Structure

- This course is a 16-week course with online delivery. Several opportunities to meet online are
 provided through the semester. Assignments and dates are provided through the class schedule.
- Students must have a headset with a microphone to participate in class.
- All class sessions are recorded. Students are responsible for all information covered in class. If you
 cannot attend class, you must review the recording.
- Classes will meet in zoom. Links to meetings are provided in the Course Requirements section of t syllabus. Be sure to test your connection prior to class. Enter as a guest and please provide your fil and last name.
- All assignments should be submitted on the due date. Late assignments will not be accepted.
 Exceptions must be approved by the instructor prior to the due date. Medical documentation may b required.
- If you become ill or experience an extreme emergency, you must contact the instructor as soon as possible to make alternative arrangements. Documentation of your situation will be required.

Course Prerequisites or Other Restrictions

None.

Course Learning Objectives

- Define technology and its uses in STEM
- Describe career options in Science, Technology, Engineering, and Mathematics
- Explain the impact of technology on society.
- Analyze problems and design a technology-based solution.
- Explain technological systems and processes.
- Describe the interrelationship between Science, Technology, Engineering, and Mathematics in STEM
- Conduct a qualitative interview (qualitative-applied research and present the findings with narrative and visuals.
- Develop teamwork skills.
- Demonstrate a knowledge base among students that increases their interest in Science, Technolog Engineering, and
 - Mathematics
- Became lifelong learners of Science, Technology, Engineering, and Mathematics

Materials

Required Textbook

none

Suggested Readings

If you do not have a good knowledge of Adobe Photoshop, you may wish to complete the following tutorial. Although Photoshop skills are not absolutely necessary to complete this class, you will find tha many employers require or prefer a working knowledge of Photoshop. The link below provides free lessons.

Photoshop for Beginners | FREE COURSE (YouTube Video) ☐⇒ (https://www.youtube.com/watch? v=lyR_uYsRdPs)



(https://www.youtube.com/watch?v=lyR_uYsRdPs)

Teaching Philosophy

I am a strong supporter of project-based learning. I believe you can develop expertise by viewing and critiquing your classmates multimedia projects.

Course Technology & Skills

Minimum Technology Requirements

- Computer
- · Reliable internet access
- Speakers
- Microphone
- Plug-ins
- Microsoft Office Suite
- Canvas Technical Requirements → (https://clear.unt.edu/supportedtechnologies/canvas/requirements)

Computer Skills & Digital Literacy

- Using Canvas
- · Using email with attachments
- · Downloading and installing software
- Using spreadsheet programs
- Using presentation and graphics programs

Technical Assistance

Part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

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

Email: <u>Helpdesk email (mailto:helpdesk@unt.edu)</u>

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-8pmSaturday: 9am-5pm

Laptop Checkout: 8am-7pm

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

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 utilize 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, 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, eve 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).

Course Requirements

Letter Grading Scheme

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = below 60

Course Evaluation

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

Course Policies

Attendance Policy

Students are required to attend all class meetings. Students missing a class meeting must listen to the recording of the missed class.

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 the instructor if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. Please communicate with the instructor prior to being absent so the your instructor can make a decision about accommodating your request to be excused from class.

If you are experiencing any <u>symptoms of COVID-19</u> (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 <u>email (mailto:askSHWC@unt.edu)</u>) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Hotline at 844-366-58 or <u>email (mailto:COVID@unt.edu)</u> 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.

Class Materials for Remote Instruction

This class meets remotely. Students will need access to a webcam and microphone. Information on how to be successful in a remote learning environment can be found at **UNT Online website** \Rightarrow (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 chang due to community health guidelines. Any changes will be communicated via the instructor.

Examination Policy

Students may use textbooks and class materials to complete exams. Students may not contact other students, experts in the field or any other individuals for assistance with exams. Students should conta the Student Helpdesk and document the remedy ticket number before contacting the instructor if there are issues during an exam.

Late Work

Late assignments are not accepted without medical documentation.

Attendance Policy

Students are responsible for attending all classes. If an absence is necessary, students should contact the professor for a link to the missed session and/or missed materials.

Class Participation

Interacting in class facilitates acquisition of new knowledge. Students are encouraged to actively engagin class discussions.

Syllabus Change Policy

Students will be notified of any syllabus policy change through a class announcement and post on the discussion board in Canvas.

Online Course Technical Difficulties Statement

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 fron 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 contact the UNT Student Help Desk by mailto:helpdesk@unt.edu, or 940.565.2324 and obtain a ticket number. The instructor and the UNT Student Help Desk will work with the student to resolve any issues at the earliest possible time.

UNT Policies

Academic Integrity Policy

Academic Integrity Standards and Consequences. 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 admonitio to expulsion from the University. [Insert specific sanction or academic penalty for specific academic integrity violation.]

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 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/) Students with disabilities may encounter some challenges in a multi-media course such as LTEC 5220. Please consult with the instructor during the first week of class and appropriate modifications will be made to the course requirements.

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 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 duratio

of the course are kept for at least one calendar year after course completion. Course work completed 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 a 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 myUNT System <a href

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 [insert administration dates] 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 (mailto: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 (mailto: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 bas 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 availab

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 by email (mailto: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 by email (mailto:oeo@unt.edu) or at (940) 565 2759.

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 (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 no 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 cours 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 ar 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 weel of the start of the course.
- (2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notisent 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 I 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 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 <u>UNT Policy 07-002 Student Identity Verification, Privacy, and Notification and Distance</u>
<u>Education Courses</u> (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 emai 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 m 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

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 severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- <u>Student Health and Wellness Center</u> ⇒ (https://studentaffairs.unt.edu/student-health-and-wellness center)
- Counseling and Testing Services → (https://studentaffairs.unt.edu/counseling-and-testing-service
- UNT Care Team

 (https://studentaffairs.unt.edu/care)
- <u>Individual Counseling</u> ⇒ (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.

- <u>UNT Records</u> ⇒ (https://registrar.unt.edu/transcripts-and-records/update-your-personal-information)

- <u>UNT Email Address</u> ⇒
 (https://sso.unt.edu/idp/profile/SAML2/Redirect/SSO;jsessionid=E4DCA43DF85E3B74B3E496CAB99D8 execution=e1s1)
- Legal Name

 (https://studentaffairs.unt.edu/student-legal-services)

*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 we ask and don't assume someone's name, we should also ask and not assume someone's pronouns

You can <u>add your pronouns to your Canvas account</u> <u>□ (https://community.canvaslms.com/docs/DO 18406-42121184808)</u> 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:

- How do I share my pronouns?

 ☐→ (https://www.mypronouns.org/sharing)

Additional Student Support Services

- Financial Aid ⇒ (https://financialaid.unt.edu/)
- Student Legal Services
 ⇒ (https://studentaffairs.unt.edu/student-legal-services)
- Multicultural Center → (https://edo.unt.edu/multicultural-center)
- Counseling and Testing Services → (https://studentaffairs.unt.edu/counseling-and-testing-service
- UNT Food Pantry ⇒ (https://deanofstudents.unt.edu/resources/food-pantry)

Academic Support Services

- UNT Libraries
 ⇒ (https://library.unt.edu/)

Course Summary:

Date	Details Due
Sat Dec 7, 2024	
Fri Aug 22, 2025	Fix Introduce yourself! due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710399)
Mon Aug 25, 2025	FV Create a Blog account due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710408)
Thu Sep 4, 2025	Blog reflection 1 due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710416)
Thu Sep 11, 2025	Module 1 Discussion due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710410)
Thu Sep 18, 2025	Blog reflection 2 due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710417)
Thu Sep 25, 2025	Module 2 Discussion due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710403)
Thu Oct 2, 2025	Fix Blog Reflection 3 due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710397)
Thu Oct 9, 2025	Module 3 Discussion due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710407)
Thu Oct 16, 2025	Fix Blog Reflection 4 due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710402)
Thu Oct 23, 2025	Module 4 Discussion due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710400)
Thu Oct 30, 2025	Team Project due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710421)
Thu Nov 6, 2025	Project Peer Review due by 11:59pm (https://unt.instructure.com/courses/129976/assignments/2710418)

Date	Details	Due
	Project Presentation due by 11:5 (https://unt.instructure.com/courses/129976/assignments/2710419)	9pm
Thu Nov 13, 2025	চ়ি <u>Blog Reflection 5</u> due by 11:5 (<u>https://unt.instructure.com/courses/129976/assignments/2710406)</u>	9pm
Thu Nov 20, 2025	fix Module 5 Discussion due by 11:5 (https://unt.instructure.com/courses/129976/assignments/2710404)	9pm