

BIOL1082/Biology for Educators Laboratory

Instructor Contact

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Pronouns: She/Her

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Office Hours: By appointment

Email: [Canvas' emailing system only](#)

Teaching Assistants:

Name: Omar Arias

Pronouns: He/His

Sections: BIOL1082.311

Office Hours: See Canvas

Email: [Canvas' emailing system only](#)

Name: Mehrnaz Moghimi

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Office Hours: See Canvas

Email: [Canvas' emailing system only](#)

Name: Lani Archer

Pronouns: She/Her

Sections: BIOL1082.321 and BIOL1082.323

Office Hours: See Canvas

Email: [Canvas' emailing system only](#)

Individual weekly meetings can be scheduled with the Teaching Assistants. Each TA will provide their office hours in Canvas. Students should email their TA minimum 24 hours in advance to set up an appointment. Students should not assume their TAs are available during the day and time they requested – their time might already be scheduled by other students. The maximum time per appointment is 30 minutes. Your TA will send you a link to start the meeting on Canvas at the time and day requested. These meetings will not be recorded.

Note: Please notice your TA's office hours will vary during Module 8 and Module 9.

Communication Expectations: The format of the Biology for Educators Laboratory is asynchronous. Students should contact their TA and Lab Instructor with personal concerns or questions about the laboratory through the Canvas' email system only. Students need to check their Canvas' email regularly. Our estimated response time for emails is 24-48 hours Monday to Friday during working hours. It is the

student's responsibility to read the TA's feedback on the graded assignments. Once the grades are posted, students will have 5 business days to request a review.

We created a discussion board for "frequently asked questions". It is located under the START HERE section in Canvas. Read the syllabus, then go to the START HERE section in Canvas to read about the most frequently asked questions. You are welcome to post a question if the answer is not already posted or in the syllabus. Our response time is 24-48 hours.

Communication policies and netiquette: Professional etiquette is part of your preparation as a future educator. Here are some items to consider as you work in educational environments, especially online: Be kind, polite and respectful. Be a problem solver and contributor to improvement of situations. Communicating online is not always as easy because of time differences, technology challenges, and lack of context. For more information on netiquette and online communication tips visit these websites:

- Netiquette: <http://www.albion.com/netiquette/corerules.html>
- Online communication tips: <https://clear.unt.edu/online-communication-tips>

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.

Course Description

The Biology for Educators Laboratory is part of a general biology course designated for elementary and middle school education majors seeking teaching certification. In the Biology for Educators course, students develop a meaningful and functional command of key biological concepts, an understanding of the interrelationship among all living things, and a correlation between what pre-service teachers are required to learn and what they are required to teach.

Course Structure

The Biology for Educators Laboratory has three units and all of them will be taught remotely. Unit 1 is composed of virtual laboratories and hands-on experiments with items that students can find at home. Unit 2 is virtual, and it has 2 optional Face-to-Face (F2F) experiences available (See table 1). Students who wish to have F2F laboratory experiences in unit 2 **should complete a survey to request** an assigned laboratory bench by September 8, 2020.

Face-to-Face Enrollment Survey (Copy and paste the link in a browser):

https://unt.az1.qualtrics.com/jfe/form/SV_cNGZCIKEEfwyMpn

In the survey, the students will indicate the day and time that they can attend the F2F laboratories. It should be the same day and time for M8 and M9. The Lab Supervisor or TA will confirm by email their reservation. (See table 1)

Students who completed the survey and requested attending the lab, will receive an online F2F laboratory safety training. Students who do not complete the F2F safety training and do not pass the F2F assessment

quiz will not be authorized to attend the F2F laboratory sessions. There is no grade assigned to the F2F labs, and students are not required to attend them either. In other words, they are optional. Students will have everything they need to complete the laboratories remotely in units 1, 2, and 3. Or without being on campus. A Teaching Assistant will be present during the F2F lab sessions for safety purposes, but there will not be lecturing or teaching— because all the teaching will be asynchronous. Students who take the F2F laboratory safety training and pass the quiz will have access to the protocols and techniques and will be able to discuss them with their TA before attending the laboratory. F2F laboratories will be available for hands-on experience and skill acquisition only.

The Biology for Educators Laboratory will provide each student a kit (from Carolina Biological Supplies) for a hands-on individual research project (unit 3). The kits will not be available on campus, each student should provide the shipping information during the first week of classes. To learn more about the experiment and to submit your address go to your BIOL1082 course in Canvas and look for “My shipping information” in the START HERE section. Contact your TA or Laboratory Supervisor if you have any questions or concerns. We are happy to help you!

Additional information about course structure: The laboratory is organized in units and modules. There is one module per week with different assignments and discussions (See table 1). The modules will open on Wednesdays at 9:00 am and close on Tuesdays at 11:59 pm CT. There are no late assignments in this course, so plan your time accordingly.

How can you attend the in-person laboratories in unit 2?

Go to the following link to make a request to attend the F2F laboratories. In the survey, you will introduce your name, laboratory section and **ALL** the days and times when you **CAN** attend the F2F laboratories. Your Laboratory Supervisor will analyze all the request and will assign you a laboratory bench during the days and times you are available.

Face-to-Face Enrollment Survey (Copy and paste the link in a browser):

https://unt.az1.qualtrics.com/jfe/form/SV_cNGZCIKEEfwyMpn

There will be no more than 6 students per session in the F2F laboratories. We will contact you to let you know once the training for the F2F labs is available and we will gladly answer any questions you might have about the protocols and safety before attending these face-to-face sessions.

Course Prerequisites or Other Restrictions

The lab constitutes 30% of your overall grade in BIOL1082 course (30% the laboratory, and 70% the lecture). You must pass both the laboratory portion and the lecture portion to receive a passing grade for the course. There are no make-up laboratories.

Qualified medical excuses will be dealt with on a case-by-case basis. If a student meets certain qualifications, an “Incomplete” may be issued at the discretion of the lecture instructor (neither the TA nor the Lab Supervisor has the authority to issue an “Incomplete”). Please see the college catalog to determine what conditions must be met before requesting an “Incomplete”.

Materials

Students do not need to purchase a laboratory manual or book for the Biology for Educators Laboratory. All the information is going to be provided on Canvas. Additional course materials will be posted under the HOME tab on Canvas. Each module contains a list of suggested reading links and or documents.

Course Technology & Skills

Minimum Technology Requirements

Students need the following technology requirements, such as:

- Computer
- Reliable internet access
- Speakers
- Microphone (Optional)
- [Canvas Technical Requirements](https://clear.unt.edu/supported-technologies/canvas/requirements) (<https://clear.unt.edu/supported-technologies/canvas/requirements>)
- Install “Adobe flash” or “Adobe shockwave player” on your computer the first week of classes.
- Take *the syllabus quiz*. The Syllabus Quiz does not count towards the grade. The syllabus quiz is mandatory and only if you take it you will be able to see the course material.

Notes:

- Please use FireFox while you are working in your assignments and discussions.
- For the syllabus quiz you need LockDown Browser
- The University has iPads available at Willis Library ready for check out. These devices have access to LockDown Browser and work perfectly for the final exam.
- The computers in Sage Hall 330 have LockDown Browser.
- The desktop computers at Willis Library/BLB are good to work on assignments and discussions.
- Willis library has laptop computers and routers for check out.

Canvas: Take a moment to familiarize yourself with Canvas. Watch this video:

https://www.youtube.com/watch?time_continue=2&v=x3j8V-uLkNw

Computer Skills & Digital Literacy

To succeed in the class, the student should have the following technical skills:

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

Email: helpdesk@unt.edu

Phone: 940-565-2324

In Person: Sage Hall, Room 130

Walk-In Availability: 8am-9pm

Telephone Availability:

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

Laptop Checkout: 8am-7pm

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

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.

For more information, go to [Engagement Guidelines](https://clear.unt.edu/online-communication-tips) (https://clear.unt.edu/online-communication-tips)

Course Requirements and Grading Criteria

The following table explains the assignments, the points, and the percentages to calculate the final grade. Each assignment needs to be submitted within the corresponding module. For a detail description of the activities and deadlines please see table 1.

All work submitted for this class must be YOUR ORIGINAL work—that is, it cannot have been published already online, submitted for any other class (even a previous attempt at this class) or for any other purpose. Please see section of “Plagiarism and Academic Dishonesty.” Turnitin will catch instances of

plagiarism. For the first offense, student(s) will receive a score no greater than 50 out of 100. For a second offense, student(s) will receive a score of 0 and the offense will be reported to the Dean of Students. Extra credit opportunities are not currently provided.

Assignments (100 points ea.)	Percentage of Final Grade
<ul style="list-style-type: none"> • <i>M1 Assignment and Discussions</i> • <i>M2 Assignment and Discussions</i> • <i>M3 Assignment and Discussions</i> • <i>M4 Assignment and Discussions</i> • <i>M5 Assignment and Discussions</i> • <i>M6 Assignment and Discussions</i> • <i>M7 Assignment and Discussions</i> • <i>M8 Assignment and Discussions</i> • <i>M9 Assignment and Discussions</i> • <i>M10 Assignment and Discussions</i> 	25%
• <i>Crime Scene Report/Group and Discussions</i>	25%
• <i>Individual Report, Individual Power Point, & Discussions</i>	25%
• <i>Online Exam or Virtual Laboratories*</i>	25%
Total	100%

*BIOL1082 will have either a final online exam or 6-8 biology virtual laboratories. Your Laboratory supervisor will inform you of this decision in Canvas.

Grading Scale and Grading Criteria

A = >90%

B = > 80%

C = > 70%

D = >60%

F = >50%

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. The SPOT Evaluations will be opened on **[November 16 – December 3]**

Course Policies

Attendance Policy

This is an asynchronous laboratory. Attendance is not mandatory.

COVID-19 Impact on Attendance

While attendance is not mandatory for this laboratory, 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 ill due to a related issue regarding COVID-19. It is important that you communicate with me so I may make a decision about accommodations.

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.

Class Materials for Remote Instruction

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.

Statement on Face Covering

Face coverings are required in all UNT facilities. Students are expected to wear face coverings during the F2F laboratories. 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.

Late Work

No late work will be accepted. The modules open on Wednesdays at 9:00 am, and close on Tuesdays at 11:59 pm CT (See table 1). Please plan accordingly.

Examination Policy

Students should submit their assignments on Tuesdays at 11:59 pm CT. If a student loses Internet connection during an exam contact the Student Helpdesk and document the remedy ticket number before contacting the Lab Instructor or TA.

Reliable Online Course System 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 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 contact the UNT Student Help Desk: 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.

Syllabus Change Policy

This syllabus is tentative and subject to change at the discretion of the Laboratory Supervisor. If the syllabus is updated, your Instructor will post an announcement and you will receive an email.

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 admonition 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 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 [November 16 – December 3] 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.

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

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 the above criteria, then the University office or department using the work must obtain the student's written permission.

Download the UNT System Permission, Waiver and Release Form

Transmission and Recording of Student Images in Electronically-Delivered Courses

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

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

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

Academic Support & Student Services

Student Support Services

Mental Health

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

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

- [Individual Counseling](https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling) (https://studentaffairs.unt.edu/counseling-and-testing-services/services/individual-counseling)

Chosen Names

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

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

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

Pronouns

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

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

Academic Support Services

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

Biology for Educators Laboratory FALL 2020			
Table 1. Description of the assignments and discussions			
Module	Assignments and Discussions	Virtual Labs	Important Notes
Aug 26 - Sept 1 <i>START HERE Section</i>	<p>*Read the syllabus and take the syllabus quiz</p> <p>Introduce yourself</p> <p>*Provide your address in the non-graded quiz "My shipping information"</p> <p>Qualtrics survey "F2F laboratories Request (Optional)"</p>	Biology Virtual Lab 1	<p>* You need to complete all these assignments to open Module 1.</p> <p>"My shipping information" is required so we send you a box with samples for Unit 3. The students do not need to pay for the box or shipping, but they are responsible of providing an address.</p> <p>Students can request to attend Face-to-Face Labs for hand on experience - Unit II (Optional).</p>
Sep 2 - Sept 8 <i>Module 1 – The Scientific Method</i>	<p>Assignment 1:</p> <p>Part 1-Dependent and Independent Variables</p> <p>Part 2-Experimental and control group</p> <p>Part 3- Measuring Cardiovascular Fitness</p> <p>Part 4- Individual Project Literature Review and Hypothesis</p> <p>Part 5*-Defining the question & writing a hypothesis</p> <p>Part 6- Discussions about hypothesis</p>	Biology Virtual Lab 2	<p>September 8, 2020: Deadline to request F2F Lab opportunity for Unit 2</p> <p>*Required to open part 6</p>
Sep 9 - Sep 15 <i>Module 2 – The Microscope, Cell Structure, and Diversity</i>	<p>Assignment 2:</p> <p>Part 1- Laboratory safety</p> <p>Part 2- The microscope</p> <p>Part 3- Virtual wet mounts of different types of cells</p> <p>Part 4- Basic Cell Structure</p> <p>Part 5*- "Tay Sachs, when lysosomes fail to function"</p> <p>Part 6- Discussions</p>	Biology Virtual Lab 2	<p>Students who requested F2F labs for Unit 2 will need to take a F2F safety training and pass a quiz. You will receive an email with instructions. Do not hesitate to contact us if you have questions.</p> <p>*Required to open part 6</p>
Sep 16 - Sep 22 <i>Module 3 – Cell Transport</i>	<p>Assignment 3:</p> <p>Part 1- Diffusion in a solid</p> <p>Part 2-Effects of temperature on diffusion in a liquid</p> <p>Part 3- Diffusion in liquids at different temperatures</p> <p>Part 4- The effect of salt water on plant cells</p> <p>Part 5*- Diffusion and the cell size</p> <p>Part 6- Discussions</p>	Biology Virtual Lab 3	<p>*Required to open part 6</p>
Sep 23 - Sep 29 <i>Module 4 – Energy</i>	<p>Assignment 4:</p> <p>Part 1- Overview</p> <p>Part 2- Chemical Process</p> <p>Part 3- Leaf Structure</p> <p>Part 4- Chloroplasts</p> <p>Part 5- Light Reactions</p> <p>Part 6- Calvin Cycle</p>	Biology Virtual Lab 3	<p>*This section is optional. It is an extra-credit opportunity.</p>

	Part 7- Biosynthesis Part 8*- Discussions		
Sep 30 - Oct 6 Module 5 – DNA and Biotechnology	Assignment 5: Part 1-Extraction of DNA Part 2- Hands on Simulation of Mutation Part 3- Cell Division Part 4- Genetically modified food Part 5*- “A Mutation Story” Part 6- Discussions		*Required to open part 6 If you applied to attend the Face-to-Face labs, please complete the F2F Safety Training before October 13
Oct 7 - Oct 13 Module 6 – Basic Genetics	Assignment 6: Part 1- Basic Genetics Activities Part 2- Chromosomes and Chromosomal Abnormalities Part 3- Pigeon Breeding Project: Genetics at Work Part 4- Blood Typing Part 5*- “Down Syndrome and Mother’s Age” Part 6- Discussions	Biology Virtual Lab 4	*Required to open part 6 October 13, 2020: Deadline to take the F2F safety training
Oct 14 - Oct 20	TBD	Biology Virtual Lab 5	
Unit II			
Oct 21 - Oct 27 Module 7 – Crime Scene Investigation Part 1	Assignment 7: Part 1 – Introduction to the Crime Scene Investigation Part 2- Group Discussions CSI #1 Virtual meetings will be available this week for students who wish to attend the F2F Labs	Biology Virtual Lab 6	In Unit 2, students will be assigned to groups. They will receive a crime scene case, review the techniques, analyze the evidence, discuss the results, solve the case, and write a report. We will provide you rubrics. Please notice M7 is an individual assignment
Oct 28 – Nov 3 Module 8 – Crime Scene Investigation Part 2	Assignment 8: Part 1- Digestion of DNA with Restriction Enzymes Part 2 – Micropipettes and Agarose Gel Electrophoresis Part 3- Evidence analysis of DNA Part 4- Evidence analysis of Hair Part 5- Evidence analysis of Fibers Part 6- Group Discussions CSI #2 Optional F2F Labs: Micropipetting and Fiber Analysis		Please notice M8 is an individual assignment
Nov 4 - Nov 10 Module 9 – Crime Scene Investigation Part 3	Assignment 9: Part 1- Evidence analysis of Powders Part 2- Evidence analysis of Blood Typing Part 3- Evidence analysis of Ink Chromatography Part 4- Evidence analysis of Blue liquids Part 5- Evidence analysis of Fingerprints Part 6- Evidence Analysis of Gels (DNA Fingerprinting) Part 7- Group Discussions CSI #3		Please notice M9 is an individual assignment

	Optional F2F labs: Blood typing, Ink Chromatography, & Powders		
Nov 11 - Nov 17	Crime Scene Investigation Report (1 report/group)		<i>One person per group submits the CSI Report</i>
<i>Unit III</i>			
Nov 18-Nov 24 <i>Module 10 – TBD</i>	Assignment 10: <i>Part 1-5* Assignment</i> <i>Part 6- Discussion Part 1</i>	Biology Virtual Lab 7	<i>*Required to open part 6</i>
Nov 25-Dec 1 <i>Module 11-Research</i>	Individual Research and Report, Individual PowerPoint, and Group Discussions		<i>We will provide a rubric</i>
December 7	Online Final Exam. 60 minutes (9 am – 5 pm). The exam needs LockDown Browser and cannot start at 5 pm.		