

Biomedical Criminalistics/ BIOL 3331/Section 001

Instructor Information

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Office Hours: by appointment

Course Description, Structure, and Objectives

Meets **in person** Mondays from 3:00 PM – 5:50 PM in LIFE A238 (PLEASE NOTE ROOM CHANGE).

This course is designed for students in the undergraduate Forensic Science Major, or students with Junior standing in similar majors, (e.g., biology, biochemistry, chemistry, etc.). An adequate background in biology and chemistry is necessary for successful completion of BIOL 3331. In general, this means completion of at least introductory chemistry and biology and a basic understanding of human anatomy and general forensic principles. If you are unsure whether you have the necessary background for this course, you must contact the instructor before the second week of class.

In this semester the emphasis is upon direct examination of human remains and related biological evidence, e.g., forensic anthropology, pathology, odontology, toxicology, etc. Students will learn how cases arise, i.e., how human remains are located, recovered, and analyzed. Supporting biological, clinical, and physical sciences will be discussed as well, e.g., entomology, DNA science, forensic geology / palynology, arson/explosives science, and others as they pertain to remains analysis.

Primary delivery of course materials is through lectures, supplemental readings, assignments, and in-class discussions.

Subject matter warning

By the nature of its intersection with the criminal justice system, the material covered in this course will necessitate the use of graphic imagery and discussion of difficult subject matter such as, but not limited to, homicide, mass disasters, and violent crimes against persons, children, and/or animals. Students are forewarned that frank discussion of the details of such incidents is paramount in forensic investigations and is an integral part of a career in forensic science. Students are encouraged to support each other, be mindful of their classmates, and bring any concerns they have to the instructor immediately. The instructor is available by email, during office hours, or by appointment.

Required/Recommended Materials

Although there is not a required textbook for this course, students may find textbooks from previous science courses helpful as reference materials.

- ***Materials uploaded onto Canvas for reading supplement lecture content. It is strongly recommended that you read this material as it will be part of the examinations. STUDENTS ARE RESPONSIBLE FOR THE CONTENT OF READINGS REGARDLESS OF IF THEY ARE DISCUSSED IN LECTURE OR NOT.***
- Additional course materials will be made available on Canvas during the semester.

- Supplementary materials and/or readings will be provided through individual learning modules as needed. Students will be expected to use library resources to read current forensic science literature.
- Technology requirements for courses with digital materials:
This course has digital components. To fully participate in this class, students will need internet access to reference content on the Canvas Learning Management System. Images in lecture and reading materials require good quality full-size image viewing abilities, i.e., a cell phone is not sufficient. Students will need access to a computer, webcam, and microphone for optional remote delivery of material if in-person classes are not possible due to inclement weather, etc. If circumstances change, you will be informed of other technical needs to access course content. Information on how to be successful in a digital learning environment can be found at [Learn Anywhere](https://online.unt.edu/learn) (<https://online.unt.edu/learn>).
 - This course employs iClicker during lectures.

How to Succeed in this Course

Assessment of competencies

This course determines student competency through the application of the material to real-world scenarios. Memorization of material will not be sufficient to pass the assessments.

Assignments

Assignments are designed to supplement lecture material. It is in the best interest of the student to complete the assignments. Material covered by the assignments will not be covered in detail in lecture and will be included in the examinations.

Attendance

If a student has a legitimate reason for an absence, this should be communicated with the instructor **prior** to the absence, whenever possible. University excused absence must be communicated in advance in writing to the instructor. Absences due to illness should be communicated as soon as possible depending on the nature of the illness; official documentation from a medical professional must be provided within one business week after return to class. ***Students are responsible for material covered in the lectures whether or not they attend class.***

Research has shown that students who attend class are more likely to be successful. You should attend every class unless you have a university excused absence such as active military service, a religious holy day, or an official university function as stated in the Student Attendance and Authorized Absences Policy(PDF)(https://policy.unt.edu/sites/default/files/06.039_StudAttnandAuthAbsence.Pub2_.19.pdf). Because we only meet once a week, every class meeting is essential to your success. To encourage your attendance, punctuality, and learning, I will provide pop quizzes of the previous week's material at the beginning of class. Plan to arrive on time because you must be present when class begins to take the quiz.

Absence for Religious Holidays: (<http://www.unt.edu/catalog/undergrad/enrollment.htm>): A student absent due to the observance of a religious holiday may take examinations/complete assignments scheduled for the day(s) missed within a reasonable time after the absence. Class participants must notify the instructor, in writing, of planned absences for religious holidays by the 12th day of the beginning of the class.

Participation in University Sponsored Activities: such as athletics, debate, musical

organizations, AFROTC, class field trips, etc., must be authorized by the student's academic dean. Within three days after the absence, students must obtain authorized absence cards from the Dean of Students for presentation to their instructors.

Absence for Military Service: In accordance with section 51.9111 of the Texas Education Code, a student is excused from attending classes or engaging in other required activities, including exams, if he or she is called to active military service of a reasonably brief duration. The maximum time for which the student may be excused has been defined by the Texas Higher Education Coordinating Board as “no more than 25 percent of the total number of class meetings or the contact hour equivalent (not including the final examination period) for the specific course or courses in which the student is currently enrolled at the beginning of the period of active military service.” The student will be allowed a reasonable time after the absence to complete assignments and take exams. Policies affecting students who withdraw from the University for Military Service are given in the Withdrawal section.

It is important for all of us to be mindful of the health and safety of everyone in our community. If you are not feeling well and may be contagious – SHARING IS NOT CARING; please stay home. Please contact me if you are unable to attend class because you are ill.

ADA accommodation

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodation at any time; however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the [Office of Disability Access](http://www.unt.edu/oda) website (<http://www.unt.edu/oda>). You may also contact ODA by phone at (940) 565-4323. A student needing accommodation can connect with the [Office of Disability Access](https://studentaffairs.unt.edu/office-disability-access) to begin the registering process (<https://studentaffairs.unt.edu/office-disability-access>).

Students with accommodation for additional time on assignments must schedule to take their examination at the ODA test center. A student that elects to take the exam in the classroom cannot be granted extra time.

Communication

Active discussion in the classroom and on Canvas is encouraged. Interactions with your fellow students and the instructors enrich the learning experience. Opportunities will be available throughout the course for extensive interaction. Active participation is essential to success.

Students may also connect with the instructor through **CANVAS email** and/or by attending office hours. Please only message through Canvas. If a response is not forthcoming within two business days, please send a follow up. A gentle nudge is always appreciated. Office hours offer an opportunity to ask for clarification or find support with understanding class material. Additional office hours, in person and virtually, will be offered as the semester concludes. Your success is our goal.

Successful Learning Environment

The value of the diversity of perspectives students bring to our campus is integral to a successful learning environment. The classroom culture relies on open communication, mutual respect, and inclusion of all perspectives. All discussions should be respectful and civil. Although disagreements and debates are encouraged, personal attacks are unacceptable.

Every student in this class should have the right to learn and engage within an environment of respect and courtesy from others. Please review UNT's student code of conduct so that we can all start with the same baseline civility understanding (Code of Student Conduct) (<https://deanofstudents.unt.edu/conduct>).

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. 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 (Links to an external site.) (<https://deanofstudents.unt.edu/conduct>) to learn more. Student Evaluation Administration Dates Student feedback is important and an essential part of participation in this course.

Course Requirements/Schedule*

	Key Dates	Topic
UNIT 1	19 Aug to September 9 (no class 2-Sep-24, Labor Day)	Course introduction Survey of forensic disciplines Legal aspects Cognitive bias Professional ethics
	16-Sep-24	Exam 1 (1h20m), Begin Unit 2
UNIT 2	16-Sep to 30-Sep	Human Anatomy Review Death Investigations Forensic Pathology: Introduction; “who, what, when, where, why?”; Who gets an autopsy Cause, manner and mechanism of death Certainty of ‘cause’; types of death
	7-Oct-24	Exam 2 (1h20m), Begin Unit 3
Unit 3	7-Oct to 28-Oct	Deaths due to Injury Forensic Odontology, Anthropology, Taphonomy the fate of human remains; clandestine remains; the biological profile; the postmortem interval
	4-Nov-24	Exam 3 (1h20m), Begin Unit 4
UNIT 4	4-Nov to 2-Dec (no class 25-Nov, Fall Break)	Overflow Toxicology, DNA, DVI... Review for final
FINALS WEEK	As per University	Final Exam (Comprehensive, 2 hours)

*Approximate schedule, subject to change. Students will be notified during class or through Canvas of adjustments to the schedule. Students will be notified by Eagle Alert if there is a campus closing that will impact a class and describe that the calendar is subject to change, citing the [Emergency Notifications and Procedures Policy \(PDF\)](https://policy.unt.edu/sites/default/files/06.049_Standard%20Syllabus%20Policy%20Statements_supplement.pdf) (https://policy.unt.edu/sites/default/files/06.049_Standard%20Syllabus%20Policy%20Statements_supplement.pdf).

Assessing Your Work

Examinations and Grading

Grades are based on total points earned. *Grades are not determined by percentage.* Canvas’s built-in grade calculations should not be used as a basis for assessing your current standing in the course.

There will be four exams (three lecture exams and a comprehensive final exam). Exams are worth 100 points each. The lowest lecture exam grade is dropped. The comprehensive final exam grade CANNOT be dropped. The final grade is the SUM two highest lecture exams + final exam.

A = 270-300
B = 240-269
C = 210-239
D = 180-209
F = 0-179

- If points are awarded for Pop Quizzes, this will be added to the associated Unit Examination.
- Grades are based on full understanding of the material; examinations are an objective measure of this understanding. *Exams will not be graded on curves as this represents a subjective assessment.*
- Examinations test your ability to APPLY the subject matter. **You must complete the examination on your own. You cannot discuss the examination with anyone other than the professor. See academic Integrity policy below.**
- You must be on time to take an exam. If you arrive late and other students have already completed the exam and left the classroom, you will not be permitted to take the exam.
- If you have a university approved absence that conflicts with a scheduled exam, you are responsible for scheduling the exam *in advance*.
- There will not be any make-up examinations offered. A missed exam will count as being dropped. Missing a second exam is not recommended.
- Grade appeals must be requested in writing within 7 days from the date the grade was posted.

Academic Integrity

*There is a **ZERO-TOLERANCE** policy in this course for violations of the Academic Integrity Policy. The nature of forensic science is such that any violation signifies an egregious ethical breach that is unacceptable in the field and it would be unconscionable to allow such a person to practice forensic science.*

According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including 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.

Other Policies and Information

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 (Links to an external site.) (<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.