

Forensic Biology 3318 Syllabus

Course Information

BIOL 3318-501, Forensic Biology, Spring 2011
Mondays 7:00-9:45 PM, CN1.120

Instructor Contact Information

Anwu Zhou, PhD, Email: anwu@utdallas.edu
Mondays 6:30 to 7:00 PM, or by appointment

Course Pre-requisites, Co-requisites, and/or other restrictions

None

Course description

BIOL 3318 Forensic Biology (3 semester hours). This course will provide a basic overview of forensic scientific techniques and disciplines. Emphasis will be placed on biological sciences.

Course Objectives

- Student will become familiar with a range of forensic disciplines
 - Recognize biological, physical, and chemical evidence
 - Describe the various methods of analyzing evidence
 - Know some of the educational requirements for forensic careers
 - Understand the legal and ethical issues of forensics & how forensics is used in court
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Reference Textbooks and Materials

- Criminalistics, by Richard Saferstein, 10th Edition, ISBN-13: 978-0-13-504520-6
 - Fundamentals of Forensic Science, by Houck & Siegel, ISBN-13: 978-0-12-356762-8
 - Forensic Biology, by Richard Li, ISBN-13: 978-1-4200-4343-3
 - PowerPoint slides posted at eLearning website before each class
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Class Schedule & Calendar

January 10	Intro to Forensic Science Crime Scene Investigation
January 17	No class
January 24	<u>Biological Section</u> Identification of Biological Evidence

- January 31 Hair Analysis
Role of Pathologists & Autopsies
- February 7 **EXAM 1**
Forensic Anthropology
- February 14 Forensic Odontology
Forensic Entomology
- February 21 Blood Spatter Patterns
- February 28 Intro to Forensic Serology
Blood Typing & Protein Profiling
- March 7 **EXAM 2**
Intro to Genetics
- March 14 No class
- March 21 STR Profiling
- March 28 Y Chromosome Profiling and Gender Typing
Mitochondrial DNA Profiling
- April 4 DNA Databases & Statistical Analysis
Quality Assurance & Quality Control
- April 11 **EXAM 3**
Physical Section
Fingerprints
- April 18 Firearms
Tool Marks
- April 25 Chemical Section
Drug Analysis
Forensic Toxicology
- May 2 New Topics
Computer Forensics
Internet Forensics
- May 9 **FINAL EXAM**
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Grading Policy

There will be a total of 4 exams. The final exam is non-comprehensive. The lowest score of four exams will be automatically dropped if all four exams are taken. The average score is used to determine the final letter grade. Extra credit, such as homework, class attendance, professionalism, etc. will be considered.

A = 100-90

B = 89-80

C = 79-70

D = 69-60

F = 59 and below

THERE WILL BE NO MAKE-UP EXAMS. You must have an excused absence for missed exam. Situations constituting excused absences are death in the immediate family, illness or accident requiring medical attention, car accidents. Documentation of the cause of the absence must be presented in writing or by email within one week of the absence to be considered excused. If events do not warrant an excused absence, a grade of zero will be recorded for missed exam.

Exams will begin promptly. No additional time to finish an exam will be given to those tardy to exams. Class schedule, including exams, is subject to change. However, sufficient notice of exam changes will be given. Exams will be 50 multiple-choice questions. Grades cannot be emailed to you due to privacy concerns.

It is highly recommended that you read the chapters corresponding to the lecture material. Additional material from other sources will be provided in lecture and it is imperative that you study the power points. Feel free to ask for assistance during class or by appointment with instructor.

Please respect your classmates and instructor by being on time to lectures and exams, not conversing with others during class, turning off or silencing cell phones and refraining from text messaging.

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline with the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual correspondence and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy to the respondent's School Dean. If the matter is not resolved by the written response provided to the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.

Disability Services

The goal of Disability Services is to provide students that have disabilities with educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:
The University of Texas at Dallas, SU 22
PO Box 830688
Richardson, TX 75083-0688
(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes with enrolled students having mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence (i.e., for the purpose of observing a religious holy day) or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or exams, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

These descriptions and timelines are subject to change at the discretion of the Professor.