

Summer 2020 Syllabus Forensic Internship

BIOL/CHEM 4900/4912 Research/Internship in Forensic Science

Instructor: Dr. Teresa D. Golden (Chem 279)
forensic@unt.edu

Location: Via Zoom Monday 5:00-6:00 p.m. Attendance is required.

Texts: The following textbook(s) are required for the course:
(1) Ethics and the Practice of Forensic Science, by R.T. Bowen
(2) Quality Assurance in Analytical Chemistry by Prichard &
Barwick

Certain readings will be taken from the following books:
Forensic Applications of HPLC, Bayne & Carlin
Forensic Science Handbook Volumes I (2nd ed.), II (2nd ed.), and
III, Richard Saferstein, editor. (Recommend reading & eventual
purchase for your personal library)

Assignments: Homework assignments will be given at the end of each class period
and are due the next class period. A short oral presentation
(PowerPoint) and research paper in ACS format over the student's
research/internship is required at the end of the semester.

Grading: Grades will be determined as 30% class attendance, 30%
assignments/homework, 30% final paper, and 10% final ppt.

*Absolutely no make-up exams will be given without a signed physician's note.

(a) According to University policy, the grade of I (incomplete) cannot be given as a substitute for a failing grade in a course.

(b) Statement of ADA Compliance: The chemistry department cooperates with the Office of Disability Accommodations to make reasonable accommodations for qualified students with disabilities. If applicable, please present your request along with an official written verification from the ODA before the end of the first week of classes.

Course Description: Students in the program are required to complete a capstone experience for their degree. This includes a research/internship one-semester course that can only be taken towards the end of the student's degree. Students are required to fill out an application form and interview prior to registration for the semester of research (application forms can be picked up at the Forensic Science Program Office, Chemistry 207B). Note some assignments require additional prerequisites, please check application form for more information. The student will complete a written report (in ACS format)

over their research/internship for a grade as well as an oral presentation. In addition, the student is required to complete homework, reading assignments and quizzes as assigned by the Instructor.

Lectures/Assignments

<u>Date</u>	<u>Lecture Topic</u>	<u>Reading Assignment</u>
Week 1	Legal Aspects and Legal Standards of Forensic Science, Legal Standards for the Admissibility of Novel Scientific Evidence,	Vol 1. Ch. 1, Saferstein. Vol. 3 Ch 1, Saferstein
Week 2	Ethics in Criminal Justice, Ethics in the Courtroom: The Scientist's Perspective, Ethics at the Crime scene & in the Crime lab,	Ch. 1&2, Bowen Ch. 3 Bowen Ch. 4, & 5, Bowen
Week 3	Scientific integrity, ethical behavior, ethical standards,	Ch. 6&7, Bowen
Week 4	Professional integrity and professional codes of conduct,	Ch. 8&9, Bowen
Week 5	Career in forensic science, resumes, preparing for interviews	
Week 6	Quality control/quality assurance,	Ch. 1&2, Prichard
Week 7	GLP, ASCLD-LAB and ISO accreditation, Scientific working groups (SWGs), and professional certification,	Ch. 5&7, Prichard
Week 8	Sampling, Analysis, and Data Treatment, Qualification, Validation and Verification,	Ch. 3, 4 & 6, Prichard Ch. 8, Bayne
Week 9	Documentation & Management & Quality Control,	Ch. 8&9, Prichard
Week 10	Presentations and Papers Due	