

Biol/Chem 4900/4912

Forensic Internship

Lecture 1

Syllabus

Summer 2020

- ▶ Instructor: Dr. Teresa D. Golden (Chem 207B, x8458, forensic@unt.edu)
- ▶ Location: via Zoom. Monday 5:00-6:00 p.m. Class attendance 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. (Recommended reading & eventual purchase for your personal library)

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- ▶ 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 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.

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Research Paper

- ▶ Title Page (Course, Name, Mentor's name, Company/laboratory)
- ▶ Abstract
- ▶ Introduction (detailed literature search important)
- ▶ Experimental Details
- ▶ Results Discussion
- ▶ Summary
- ▶ References
- ▶ Work Log

Syllabus

Assignments

- | <u>Date</u> | <u>Course Topic</u> | <u>Reading Assignment</u> |
|-------------|--|---|
| ▶ Week 1: | Legal Aspects and Legal Standards of Forensic Science, Vol 1.
Ch. 1, Saferstein | Legal Standards for the Admissibility of Novel Scientific Evidence, Vol. 3 Ch 1, Saferstein |
| ▶ Week 2: | Ethics in Criminal Justice, Ch. 1&2, Bowen | Ethics in the Courtroom: The Scientist's Perspective, Ch. 3 Bowen
Ethics at the Crime scene & in the Crime lab, 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 | |

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Assignments

- | <u>Date</u> | <u>Course Topic</u> | <u>Reading Assignment</u> |
|-------------|---|--|
| ▶ 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, | Ch. 3, 4 & 6, Prichard, Qualification, Validation and Verification, Ch. 8, Bayne |
| ▶ Week 9: | Documentation & Management & Quality Control, | Ch. 8&9, Prichard |
| ▶ Week 10: | Presentations and Papers Due | |

Assignment

- ▶ Begin Paper Abstract (Topic)
- ▶ Start work log (due the end of the semester)
- ▶ Read:
 - 1) Legal Aspects and Legal Standards of Forensic Science, Vol 1. Ch. 1, Saferstein and Vol. 3 Ch. 1, Saferstein
 - 2) Homework - see syllabus for each week HW and turn in to forensic@unt.edu. Late HW will have pts taken off.