

Introduction to Toxicology

Contact Information

Name	Position	Phone/Pager	email
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Course Information

Brief Description of Course

This course will provide an in-depth review of the pharmacology and toxicity of common medications, drugs of abuse, plants and animals, and household chemicals. The student will interact with medical toxicologists, residents in emergency medicine and other specialties, pharmacology students, and pharmacists. They will participate in daily didactics, receive lectures covering common toxicologic exposures and round on poisoned patients admitted to the Emergency Department or hospital with the medical toxicology consult service. In addition, students will have the unique experience of working beside Specialist in Poison Information (SPIs) at the Utah Poison Control System.

Course Goals

As a result of successfully completing Introduction to Toxicology, students will be able to:

1. Understand the fundamentals of identification and management of common toxicologic exposures.
2. Gather, record and present data on patients referred to the Poison Control Center.
3. Perform a physical exam specific to the intoxicated patient.

Course Format & Schedule

Pre-requisites

This course is open to MS4 students only. The elective will be available all blocks. Limit 2 students per block.

Timeline

The elective is a 4-week rotation which meets Mon-Fri, approximately 0800-1500.

Educational and Instructional Modalities

Modality	Percentage
Small group didactic/lecture	30%
Rounding	10%
PCC calls	60%

Role of the Student in this Course

Poison Center duties: students will be expected to arrive at the Poison Center at 0800. They will participate in both daily poison center rounds as well as inpatient rounds at the University of Utah and Children's Hospitals with the Toxicology team, learning both the pharmacology of various toxicologic exposures and the clinical/exam findings associated w/ exposures. They will conduct telephone follow-ups and provide recommendations to caregivers of poisoned patients under the supervision of Poison Center staff. They will receive daily lectures on commonly encountered toxicologic exposures (e.g. Acetaminophen, Aspirin, Carbon Monoxide, Envenomations, Household Poisons, Plants and Mushrooms, Drugs of Abuse, Pediatric Exposures).

Medical Student rotators will participate in alternating weekly case conference or journal club on Monday afternoons as well as occasional national case conferences on Thursdays. They will complete one in-depth

case presentation and give a 10-minute presentation on a toxicologic topic of interest to them as agreed upon with the course directors.

Required Textbook(s)/Readings

Book Title + ISBN	Author/Publisher/Edition	Appx Cost
Goldfrank's Toxicologic Emergencies	Nelson, Hoffman, et. Al. (11 th edition)	N/A (available in PCC)
Poisoning and Drug Overdose	Olson (7 th edition)	N/A (available in PCC)

Additional Resources

Tox and the Hound - <https://emcrit.org/category/toxhound/>

Assessment & Grading

Preceptor Evaluations

Medical toxicology faculty will perform a combined evaluation of each student based upon clinical contact hours.

Assessments

Assessment/Assignment	Due Date	Weight towards Final Grade
Final presentation	End of rotation	5%
Case presentation	End of rotation	5%
Combined Med Tox preceptor evaluation	End of rotation	90%

Grading System

Students will receive a final letter grade of PASS (P), or FAIL (F) for this course.

PASS: A final numerical score of greater than or equal to **2.0**

FAIL: A final score of less than **2.0**

Student Feedback

Student feedback is important and helps identify opportunities to improve the course.

At the conclusion of each course, clerkship or rotation medical students are required to complete a summative evaluation. Evaluations are completed electronically and remain confidential.

Standard Policies

Please refer to the Student Handbook (on the Student Affairs website) for these policies:

Accommodations

Addressing Sexual Misconduct
Attendance policy
Dress Code
Examination and Grading Policies
Grade or Score Appeal
Professionalism, Roles & Responsibilities
Mistreatment

Center for Disability & Access Services

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability and Access, 162 Olpin Union Building, 581-5020 (V/TDD). Staff of the Center for Disability and Access will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability and Access.

The Senior Director of the Academic Success Program, Dr. Steven Baumann (1C047B SOM Dean's Office, 587-3671, or steven.baumann@hsc.utah.edu), serves as the liaison between the School of Medicine and the Center for Disability and Access.