



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR567 Toxicology - JNQF Level: 7
First Semester 2024-2025

Course Catalog
2 Credit Hours. Comprehensive discussion of the principles of toxicology, common antidotes, and skills to deal with poisoning by commonly encountered toxins, drugs and medical products.
Teaching Method: Blended

Text Book	
Title	Poisoning and Drug Overdose
Author(s)	Ilene B. Anderson, Neal L. Benowitz, Paul D. Blanc, Susan Y. Kim-Katz, Alan H. B. Wu, Kent R. Olson, Craig Smollin
Edition	8th Edition
Short Name	Ref #1
Other Information	

Instructor	
Name	Dr. Shreen Nusair
Office Location	P2L0 - Office 118
Office Hours	
Email	sdnusair@just.edu.jo

Class Schedule & Room
<p>Section 1: Lecture Time: Thu : 11:30 - 12:30 Room: NORTH HALL</p> <p>Section 2: Lecture Time: Mon : 13:00 - 14:00 Room: M3301</p>

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to Toxicology; Principles of Toxicology	From Ref #1
Weeks 2, 3	First Aid Measures: General management of poisonings; Toxidromes and vital signs	From Ref #1
Weeks 4, 5	Over the Counter Drugs: Acetaminophen; Salicylates; Nonsteroidal Anti-inflammatory drugs; Xanthine derivatives (Caffeine and Theophylline)	From Ref #1
Week 6	Prescription Medications: Digoxin and the cardiac glycosides	From Ref #1
Week 7	Psychopharmacologic Medications: Tricyclic antidepressants; Opioids	From Ref #1
Week 8	Pesticides: Organophosphates and carbamates insecticides	From Ref #1
Week 9	House Hold Chemicals: Aromatic hydrocarbons	From Ref #1
Week 10	Toxic Gases: Carbon monoxide; Cyanide	From Ref #1
Week 12	Microbial toxins: Botulism	From Ref #1
Week 13	Botanicals: Mushroom poisoning	From Ref #1
Week 14	Envenomation: Snake poisons; Scorpion stings; Bee and Wasp stings	From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify toxidroms and toxic substances [1PLO1.1] [1L7K1]	20%	Med exam
Explain the mechanism of action of frequently encountered toxins [1PLO2.1] [1L7S2]	40%	Med exam, Final exam
Evaluate clinical toxicity cases and related managements [1PLO3.1] [1L7C4]	30%	Projects and activities, Final exam
Design a brochure related to any substance toxicity [1PLO3.6] [1L7S3, 1L7C1]	10%	Projects and activities

PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1	PLO-PT1.1	PLO-PT2.1	PLO-PT2.2	PLO-PT3.1
20	40						30			10									

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S2	L7S3	L7C1	L7C4
20	40	5	5	30

Evaluation	
Assessment Tool	Weight
Med exam	30%
Projects and activities	30%
Final exam	40%

Policy	
Exams	<ul style="list-style-type: none"> - All exams are closed books and notes. - The final exam is comprehensive (covers all the material). - The first, second, and midterm incomplete exams need approval from the departments heads. - The final incomplete exams need approval from the dean.
Cheating	<p>Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة:</p> <p>أ- اعتباره راسياً في ذلك الامتحان أو الاختبار</p> <p>ب- إلغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل</p> <p>ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه</p>
Attendance	<ul style="list-style-type: none"> - Attendance is mandatory and will be recorded regularly. - Excellent attendance is expected. - Students who miss more than 20% of the classes will be dropped from the course as per JUST policy. - If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Active learning and students participation	<ul style="list-style-type: none"> - Students are expected to actively participate in class discussions. Bonus marks may be provided on lectures for answering specific assigned questions or doing specific activity.
Laboratory	NA
Withdraw	According to dates specified on the university calendar. Usually the last day to drop the course is before the twelve (12th) week of the current semester.
Communicating with Instructors	<ul style="list-style-type: none"> - Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. - Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications.
Classroom Etiquette	<ul style="list-style-type: none"> - Respect <ul style="list-style-type: none"> o Respect people, places, and things. o Raise your hand to speak. o Listen respectfully. o Food and drink are not permitted in class. o Do not engage in aside conversations. - Participation or Disruption: <ul style="list-style-type: none"> o Do not hesitate to ask questions at any time, especially if you are unsure of something. o Listen to other students' questions to avoid asking the same question five minutes later. o Allow your classmates to participate in class discussions and refrain from taking advantage of all opportunities for active participation. - Cell Phones and Electronic Devices: <ul style="list-style-type: none"> o Texting is not permitted in class. o The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission. o Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call. o Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. o Do not use your laptop in class for browsing the Internet or using social media while in class. - Missing a Class <ul style="list-style-type: none"> o Do not miss classes. It is not appropriate to ask the professor if you missed anything important if you miss class. Obviously, something of importance was missed, you missed a whole class! o Whenever you are absent from class, it is your responsibility to make up the work and to get notes, not your professor?s. o If you need to leave early, notify the instructor. - Be Punctual <ul style="list-style-type: none"> o Make sure you arrive to class on time.

Email Etiquette	<ul style="list-style-type: none"> - Type your email in the body of the email NOT in the subject line. - Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line. - Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or Sincerely). - Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries. - Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged. - It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient. - Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled. - If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting. - You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF. - Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that, if no response is received, you can follow up. - Effective Email Writing: Template for Email: subject, salutation, introduce your self, your request, closing remarks, your name.
Project Policy	<p>All exams are closed book and notes. There will be a project (brochure preparation), the criteria will be given during the introductory lecture of the first week).</p> <p>Toxicology Brochure</p> <p>You can choose any substance, Gas, Drug or herbal Toxicity</p> <p>General criteria of the brochure (you must include all): Form a group of 6 students per brochure.</p> <p>Prepare 6 text columns (in English) that describes the selected substance (or mixture of substances) structure, classification, photo, purpose of usage or therapeutic indications, overdose toxicity with symptoms, take home message, references, students' names and ID number, section number with role of each team member.</p> <p>Save as a PDF two pages, each page contains 3 columns (total of 6 columns).</p> <p>Should be uploaded once and only by the team leader on a specific link at e-learning by the due date.</p> <p>The brochure will be evaluated on the basis of originality, design, correct information, grammar, and spelling.</p> <p>Innovative ideas are appreciated (e.g. model design, present a video or display samples)</p> <p>Team work and organization will be evaluated. It will cost marks if you cannot find a team. So contact me if you could not find a team within one month.</p> <p>Failure to prepare the project by the due date will cost marks.</p> <p>Please contact me for any issue, concern, or question.</p> <p>The final exam is comprehensive (covers all the material). Incomplete exams need approval from the Faculty Dean</p>