

Jordan University of Science and Technology Faculty of Science & Arts Chemistry Department

CHEM431 Chemistry Of Toxicology

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This course is designed to build up the knowledge and scientific skills regarding the types and sources of chemical toxins, pathophysiology of intoxication and manifestation, their principal investigation, precaution and management. It also involves the understanding of preventing illegal or antisocial use of chemicals.

Teaching Method: On Campus

Text Book					
Title	Casarett & Doull's Toxicology: The Basic Science of Poisons				
Author(s)	Curtis Klaassen				
Edition	9th Edition				
Short Name	Basic of poison				
Other Information					

Instructor				
Name	Dr. Ayat Bani Rashaid			
Office Location	-			
Office Hours				
Email	ahbanirashaid@just.edu.jo			

Class Schedule & Room

Section 1:

Lecture Time: Mon, Wed: 10:00 - 11:00

ندوات قسم الكيمياء :Room

Prerequisites				
Line Number	Prerequisite Type			
913362	CHEM336 Principles Of Chemical Instrumentation	Prerequisite / Study		

Tentative List of Topics Covered					
Weeks	Topic	References			
Weeks 1, 2	Introduction to Toxicology				
Weeks 3, 4, 5	General Principles of Toxicology				
Weeks 6, 7	Mechanisms of Toxicity				
Week 8	Disposition of Toxicants				
Weeks 9, 10	Biotransformation of Xenobiotics				
Weeks 11, 12	Toxic Effects of Insecticides				
Weeks 13, 14	Toxic Effects of Metals				
Weeks 15, 16	Toxic Effect of Gases				

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Have an understanding of general principles of toxicology. [1a, 1d, 1e]	20%	
Have an understanding of analytical toxicology. [1a, 1c, 1d, 1f, 1g]	20%	
Have an understanding of biotransformation of poisons [1e, 1f, 1g, 1k]	20%	
Have an understanding of toxic effects of chemicals [1a, 1i, 1j]	30%	
Work in groups and teams. [1d, 1f]	10%	

Relationship to Program Student Outcomes (Out of 100%)										
а	b	С	d	е	f	g	h	i	j	k
20.67		4	15.67	11.67	14	9		10	10	5

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