



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

CHEM432 Forensic Chemistry

Second Semester 2024-2025

**Course Catalog**

3 Credit Hours. This course intends to develop student's abilities to conduct chemical analysis, statistical analysis, and illicit drugs analysis. The course includes principles of organic and inorganic analysis of chemical sciences, textile fibers, explosives, soil, and glass analysis. Case studies and problem solving will stimulate creative and scientific thinking. In addition, the course helps the student to develop approaches to understand using chemical tools in crime investigation.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	"Forensic Chemistry 2022"
<b>Author(s)</b>	Suzanne Bell
<b>Edition</b>	3rd Edition
<b>Short Name</b>	Forensic Chemistry
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Ayat Bani Rashaid</b>
<b>Office Location</b>	-
<b>Office Hours</b>	Sun : 09:30 - 10:30 Sun : 12:00 - 13:00 Mon : 15:00 - 16:00 Tue : 09:30 - 10:30 Tue : 12:00 - 13:00 Thu : 11:00 - 12:00
<b>Email</b>	ahbanirashaid@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Sun, Tue : 13:00 - 14:00

Room: NF46

**Prerequisites**

Line Number	Course Name	Prerequisite Type
912620	CHEM262 Biochemistry	Prerequisite / Pass
913362	CHEM336 Principles Of Chemical Instrumentation	Prerequisite / Pass
822620	HSS262CHEM Biochemistry	Prerequisite / Pass

**Tentative List of Topics Covered**

Weeks	Topic	References
Weeks 1, 2	Introduction to Forensic Science	
Week 3	The Crime Scene Investigation	
Week 4	The Nature of Evidence	
Week 5	Introduction to Forensic Chemistry	
Week 6	Fundamental of Statistics	
Week 7	Microscopy	
Week 8	Drugs Analysis	
Weeks 9, 10	Textile Fiber Analysis	
Weeks 11, 12	Gunshot Residue	
Weeks 13, 14, 15	Instrumental Analysis	

**Relationship to Program Student Outcomes (Out of 100%)**

PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11

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