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

CHEM107 General Chemistry Lab
Summer Semester 2019-2020

Course Catalog
1 Credit Hours. The experiment will explore particular chemical or physical systems and will draw conclusions by further experimentation. A student will be discovering concepts rather than verifying them.

Text Book	
Title	Collected Manual
Author(s)	Department of Chemistry
Edition	1st Edition
Short Name	manual
Other Information	

Instructor	
Name	**Mr. Ibrahim Aljawarneh**
Office Location	-
Office Hours	Sun : 10:30 - 12:30 Mon : 10:30 - 12:30 Tue : 10:30 - 12:30 Wed : 10:30 - 11:30
Email	jawarneh@just.edu.jo

Class Schedule & Room

Section 1:
  Lecture Time: Thu : 08:00 - 12:00
  Room: LAB

Section 2:
  Lecture Time: Thu : 12:00 - 16:00
  Room: LAB

Section 3:
  Lecture Time: Thu : 08:00 - 12:00
  Room: LAB

Section 4:
  Lecture Time: Thu : 12:00 - 16:00
  Room: LAB

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
911020	CHEM102 General Chemistry (2)	Pre./Con.

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Laboratory Saftey	**Exp 1** From **manual**
Week 2	Density	**Exp 2** From **manual**
Week 3	Physical Separation of mixture	**Exp 3** From **manual**
Week 4	Limiting Reactant	**Exp 4** From **manual**
Week 5	Chemicals in every day life	**Exp 5** From **manual**
Week 6	Collegative Properties	**Exp 6** From **manual**
Week 7	Calorimetry	**Exp 7** From **manual**
Week 8	Acid ? base titration	**Exp 8** From **manual**
Week 9	Determination of a rate law	**Exp 9** From **manual**
Week 10	Quantitative yield of redox reaction	**Exp 10** From **manual**
Week 11	Quantitative analysis of Cations	**Exp 11** From **manual**

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To develop reasoning and problem ? solving skills including the ability to identify Pertinent variables , recognize qualitative terndes in data , determine what , if any quantitative trends in data , determine what , if any , quantitative relationships exist and test the validity of conclusions . [1b, 1c, 1d]	40%	
To master the basic laboratory skills need to enter advanced chemistry courses [1d, 1e, 1f]	20%	
To correlate the day ? to ? day observation with chemistry experiment [1b, 1i]	20%	
Exhibit a basic knowledge of physical properties of chemical reactions [1g, 1h]	20%	

Relationship to Program Student Outcomes (Out of 100%)										
a	b	c	d	e	f	g	h	i	j	k
	23.33	13.33	20	6.67	6.67	10	10	10		

Evaluation	
Assessment Tool	Weight
midterm	40%
participation	20%
final	40%

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