



**UNIVERSITY OF JORDAN**  
**School of Engineering**  
**Chemical Engineering Department**

**0905463 Chemical Engineering Lab (3)**  
**Second Semester 2018/2019**

<b>Course Catalog</b>	
<b>Compulsory, 1 Credit Hours (3 h Practical)</b>	
Selected experiments drawn from (0905441) and (0905442) courses including wetted wall column, ion exchange, absorption, air-water simulator, distillation, extraction, cooling tower, tray drier, crystallization and adsorption.	
<b>Prerequisite</b>	0905442 (or co-requisite)

<b>Textbook</b> ---	
<b>References</b>	
<b>Books</b>	<ul style="list-style-type: none"> <li>• See Syllabus of 0905441 Mass Transfer Operations and 0905442 Heat &amp; Mass Operations</li> <li>• Lab Manual prepared by faculty at Chem. Eng. Dept., University of Jordan.</li> </ul>
<b>Journals</b>	---
<b>Internet links</b>	

<b>Instructor (s)</b>	
Name	Dr. Ahmad M. AbuYaghi
Office Location	Eng. Building, 2 <sup>nd</sup> Floor
Office Phone	06 535 5000 Ext: 22906
E-mail	<a href="mailto:abuyaghi@ju.edu.jo">abuyaghi@ju.edu.jo</a>

<b>Class Schedule &amp; Room</b>	
Lab Time:	Sunday 14:00-17:00
Location:	Chem. Eng. Laboratories
<b>Office Hours</b>	
Tuesday, Thursday:	11:00-12:00
Monday and Wednesday:	10:00-11:00

<b>Mapping of Course Objectives to Program Outcomes</b>	
1. To learn and practice how to use lab equipment to get experimental results. [O6]	
2. To be able to follow and report the proper experimental procedure. [O6]	
3. To learn how to analyze experimental data and arrive at correct conclusions. [O6]	
4. To identify and recognize the hazards & safety precautions associated with experiments. [O4]	
5. To identify and recognize the sources and magnitude of errors associated with experiments. [O1]	
6. To work effectively in teams and take initiatives. [O5]	
7. To present results orally and in a written form. [O3]	

<b>Relationship to ABET Criterion 3 (score out of 100)</b>				
O1	O3	O4	O5	O6
√	√	√	√	√

  

<b>Relationship to Program Objectives</b>		
1	2	3
√	√	√

<b>Skills Targeted</b>	
	<b>Experiment</b>
1. Reinforcement of theory.	All
2. Experimental practice and safety	All
3. Connectivity between various courses.	All
4. Data acquisition and analysis skills.	All
5. Teamwork and initiative	All
6. Written and oral Communication.	Selected

<b>Evaluation</b>		
<b>Assessment Tool</b>	<b>Expected Due Date</b>	<b>Weight</b>
Reports Writing		
Oral Presentation		
Midtem Exam		
General Evaluation		
Final Exam	According to University final examination schedule	50 %

Prepared by: Dr. Ahmad M. AbuYaghi

Feb, 5th, 2019

<b>ABET Category Content</b>	
<b>Engineering Science</b>	100% (1 CR)
<b>Engineering Design</b>	