



UNIVERSITY OF JORDAN
School of Engineering
Chemical Engineering Department

0915561 Chemical Engineering Lab (3)
Second Semester

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| Course Catalog | |
| Compulsory, 1 Credit Hours (3 h Practical) | |
| Perform experiments in separation processes including diffusion, sorption-desorption, absorption, humidification, distillation, extraction, drying, and evaporation. | |
| Prerequisite | 0915452 |

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

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| Instructor (s) | |
| Name | Dr. Ahmad M. AbuYaghi |
| Office Location | Eng. Building, 2 nd Floor |
| Office Phone | 06 535 5000 Ext: 22906 |
| E-mail | abuyaghi@ju.edu.jo |

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

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| Mapping of Course Objectives to Program Outcomes | |
| 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] |

| Relationship to ABET Criterion 3 (score out of 100) | | | | |
|--|----|----|----|----|
| O1 | O3 | O4 | O5 | O6 |
| √ | √ | √ | √ | √ |

| Relationship to Program Objectives | | |
|---|---|---|
| 1 | 2 | 3 |
| √ | √ | √ |

| Skills Targeted | |
|--|-------------------|
| | Experiment |
| 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 |

| Evaluation | | |
|------------------------|--|---------------|
| Assessment Tool | Expected Due Date | Weight |
| 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

| ABET Category Content | |
|------------------------------|-------------|
| Engineering Science | 100% (1 CR) |
| Engineering Design | |