



كلية الصيدلة جامعة الزيتونة الأردنية  
Faculty of Pharmacy  
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "  
Toward Excellence in Pharmaceutical  
Education

جامعة الزيتونة الأردنية  
Al-Zaytoonah University of Jordan  
كلية الصيدلة  
Faculty of Pharmacy



"Tradition and Quality"

<b>Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department</b>	<b>QF02/0408-3.0E</b>
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Faculty	Pharmacy	Department	Pharmaceutical sciences
Course number	<b>201223</b>	Course title	<b>Pharmaceutical Calculations</b>
Number of credit hours	1	Pre-requisite/co-requisite	<b>Pharmaceutics-1</b>

**Brief course description:**

This course teaches pharmaceutical calculations that are involved in prescriptions.

<b>Course goals and learning outcomes</b>	
<b>Goal 1</b>	Starting with international systems of units, roman numerals and Latin abbreviations.
Learning outcomes	1.1 The student will be able to Perform conversions of measurement within the metric system and between the metric, household and apothecary systems.
<b>Goal 2</b>	Calculations involved in dilution, concentration, reducing and enlarging formulas.
Learning outcomes	2.1 Solve problems involving the following: ratio & proportion, fractions and conversion of ratios to percentages
<b>Goal 3</b>	Dosage Calculations
Learning outcomes	3.1. Perform dosage calculations including the following: calculating number of doses, dispensing quantities, ingredient quantities, paediatric formulas body surface area and day supply calculations.
<b>Goal 4</b>	Calculate concentrations of mixtures
Learning outcomes	4.1 Understanding calculations regarding (weight/weight, weight/volume, volume/weight and volume/volume) and dilutions of stock solutions
<b>Textbook</b>	1.- Pharmaceutical calculations, by: M. J. Stocklosa and H. C. Ansel, 13 <sup>th</sup> edition, 2010
<b>Supplementary references</b>	1. 1.- British Pharmacopeia, 2010. 2. Remington's:- The science and practice of Pharmacy, 21 <sup>st</sup> ed, 2006. 3. Martindal Extra Pharmacopeia, 2009.



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Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1 1	Roman Numerals	Experiment 1	
02	1 1 1	International Systems of Units; Metric system, common systems, conversion	Experiment 2	
03	1 1 1	Percentage, Ratio Strength Other Expressions of Concentration	Experiment 3	
04	1 1 1	Percentage, Ratio Strength Other Expressions of Concentration. (continued).	Experiment 4	
05	1 1 1	Interpretation of prescription medication orders; Definition, components of typical R <sub>x</sub> , abbreviations and symbols commonly used in R <sub>x</sub> .	Experiment 5	
06	1 1 1	Calculation of doses; General considerations; Patient Parameters	Experiment 6	
07	1 1 1	Dilution, Concentration, and Allegation	Experiment 7	
08	1 1 1	Dilution, Concentration, and Allegation. (continued)	Experiment 8	
09	1 1 1	Reducing and enlarging formulas; percentage and ratio strength calculations	Experiment 9	
10	1 1 1	HLB Calculations	Experiment 10	

<b>Theoretical course evaluation methods and weight</b>	Participation = 10% First exam 20% Second exam 20% Final exam 50%	<b>Practical (clinical) course evaluation methods</b>	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

<b>Name of teacher</b>	Wesam Naser, M.sc	<b>Office Number</b>	<b>313</b>
<b>Phone number (extension)</b>	313	<b>Email</b>	Wesamn.naser@zug.edu.jo
<b>Office hours</b>			