

SCIE C1101: Pharmaceutical Calculations and Computing

Module Title:			Pharmaceutical Calculations and Computing		
Language of Instruction:		n:	English		
Credits: 5		5			
NFQ Level:		6			
Module Deli	vered In		1 programme(s)		
Teaching & Learning Strategies:			This module will be taught in two theory class and two computer lab practicals, each of one hour duration, per week. Relevant examples, notes and problem sheets will be available on Blackboard which students wi complete to re-enforce learning. Delivery of the computing module will involve individual and group practical exercises.		
Module Aim:			The aim of this module is to give students a thorough grounding in the mathematics required for the successful understanding and solution of pharmaceutical calculation problems and to provide them with the information communications technology skills required for the college and pharmacy environments.		
Learning Ou	itcomes				
On successf	ul completic	n of th	nis module the learner should be able to:		
LO1	Solve numerical problems related to science, health and pharmacy business operations.				
LO2	Solve a range of pharmaceutical calculation problems.		f pharmaceutical calculation problems.		
LO3 Use information communications technologies.		nation	communications technologies.		
Pre-requisite learning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
<i>Incompatible Modules</i> These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					
No Co-requisite modules listed					
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.					
No requirements listed					



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Module Content & Assessment

Indicative Content						
Numeracy for Healthcare and Pharmacy Operation. Number systems. Quantity calculations in pharmacy. Data, vaccine management and business calculations.						
Scientific Calculations Exponents, logarithms and pH calculations. Scientific notation and significant figures. Accuracy and Error.						
	Measurement in pharmacy Metric, imperial and household measurement systems. Conversions – intersystem, intrasystem and temperature. Ratio and proportion.					
Percent Strength Calculati Ratio and Percent Strength,		and Alligations.				
Dosage Calculations Oral, Parenteral, Paediatric	and BSA d	losage calculations.				
Practicals Computer based mathematics support. Information & communications technology: ICT theory, referencing and software applications. Team presentations on a calculation/technology based topic related to pharmacy/healthcare.						
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Assessment Breakdown	Assessment Breakdown %					
Continuous Assessment				30.00%		
Practical 20.00%						
End of Module Formal Examination				50.00%		
Special Regulation						
Students must achieve a minimum grade (35%) in both the practical and final exam components of the course and a minimum of 60% in the CA component.						
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Continuous Assessment			1		1	
Assessment Type		Assessment Description	Outcome addressed	% of total	Assessment Date	
Examination		In-class assessments	1,2	30.00	n/a	
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No Project						
Practical						
Assessment Type	Assessm	nent Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Practical	exercises, team project work and presentations.	1,3	20.00	n/a	

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	Two hour exam	1,2	50.00	End-of-Semester	

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	2.00
Practicals	12 Weeks per Stage	2.00
Estimated Learner Hours	15 Weeks per Stage	5.13
	Total Hours	125.00

Module Delivered In					
Programme Code	Programme	Semester	Delivery		
CW_SAPHA_C	Higher Certificate in Science in Pharmacy Technician Studies	1	Mandatory		