


Philadelphia University	 <b>PHILADELPHIA UNIVERSITY</b> THE WAY TO THE FUTURE	Approved Date:
Faculty: Pharmacy		Issue:
Department:		Credit Hours: 2
Academic Year: 2021-2022		Course Syllabus

### Course Information

Course No.	Course Title	Prerequisite
0520522	Toxicology	0520432 Pharmacology 3
Course Type		Class Time
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input checked="" type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory		Sec1: Sun, Tue: 9.45 – 10.35
		Room No.
		310

### Instructure Information

Name	Office No.	Phone No.	Office Hours	E-mail
Dr. Yousef Abusamra	408 / Faculty of Nursing – 1 <sup>st</sup> floor	2174	Sun/Tues. 9.00-9.45 10.35– 11.00 Mon/Wed 9.00-9.45 11.00-12.00	<a href="mailto:yabusamra@philadelphia.edu.jo">yabusamra@philadelphia.edu.jo</a>

### Course Delivery Method

<input type="checkbox"/> Blended	<input type="checkbox"/> Online	<input checked="" type="checkbox"/> Physical
Learning Model		
Percentage	Synchronous	Asynchronous
		100%

### Course Description

This course focuses on aspects of toxicology. Students will receive basic background information about important areas in toxicology, which includes the principles of toxicology, Dose-response relationships, and mechanisms of toxic action. Discuss the appropriate detoxification methods for general toxicology, the toxicological effect of heavy metals, products like pesticides and household and different groups of medications and compounds on human health, and common types of antidotes and their mechanism of action.

## Course Learning Outcomes

Number	Outcome	Corresponding Program Outcomes	Corresponding Competencies
<b>Knowledge</b>			
<b>K1</b>	To be familiar with the main terminology and definitions in toxicology.	<b>Kp1,</b>	<b>C1</b>
<b>K2</b>	Understand the basic principles of toxicokinetics and toxicodynamics	<b>Kp1</b>	<b>C1</b>
<b>K3</b>	To know different types of toxicants (household/industrial, medical, and drugs of abuse) and their mechanism of toxicity	<b>Kp1</b>	<b>C1</b>
<b>K4</b>	Provide knowledge of the most commonly encountered antidotes, their mechanisms of actions, routes of administration	<b>Kp1, Kp2</b>	<b>C1, C2</b>
<b>K5</b>	To be familiar with the clinical presentation of intoxicated patients	<b>Kp1, Kp2</b>	<b>C1, C2</b>
<b>K6</b>	To be familiar with general principles for the management of poisoned patients.	<b>Kp1, Kp2</b>	<b>C1, C2</b>
<b>Skills</b>			
<b>S1</b>	Apply the knowledge obtained from this course to evaluate exposure associated with toxicants.	<b>Sp1, Sp2</b>	<b>C7. C8</b>
<b>S2</b>	Apply the knowledge obtained from this course to solve problems associated with toxicants.	<b>Sp1, Sp2</b>	<b>C7. C8</b>

## Learning Resources

<b>Course Textbook</b>	Toxicology: the basic science of poisons, Casarett and Doulls, 8 <sup>ed</sup> , 2013 -Clinical toxicology, principles and mechanisms, 2 <sup>ed</sup> , Frank A. Barile, 2010
<b>Supporting References</b>	Casarett & Doull's: Essentials of Toxicology, 3 <sup>ed</sup> Ed. 2015 by Curtis Klaassen and John Watkins III
<b>Supporting Websites</b>	- American College of Toxicology, <a href="http://www.actox.org/">www.actox.org/</a> - International journal of toxicology, <a href="http://ijt.sagepub.com/">ijt.sagepub.com/</a> - British National Formulary (BNF), <a href="https://www.bnf.org/">https://www.bnf.org/</a>
<b>Teaching Environment</b>	<input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other

## Meetings and Subjects Time Table

Week	Topic	Learning Method*	Task	Learning Material
1	<b>Vision and Mission of Faculty of Pharmacy</b> <b>Course Syllabus</b> <b>Introduction</b>	Lecture		Provided in the Learning Resources table
2	Principles of Toxicology	Lecture		
3	Toxicokinetics and Toxicodynamics of toxicants	Lecture		
4	Toxicokinetics and Toxicodynamics of toxicants	Lecture		
5	Toxicokinetics and Toxicodynamics of toxicants	Lecture		
6	Toxicokinetics and Toxicodynamics of toxicants	Lecture		
7	General approaches to the management poisoned patients	Lecture Problem solving based learning	Case study	
8 Mid exam	General approaches to the management poisoned patients	Lecture Problem solving based learning		
9	Toxicity of Heavy Metals	Lecture		
10	Toxicity of Heavy Metals	Lecture Collaborative learning		
11	Toxicity of Heavy Metals	Lecture		
12	Toxicity of Heavy Metals			
13	Pesticides and household toxicology	Lecture Problem solving based learning	Case study	
14	Pesticides and household toxicology	Lecture		
15	Animal toxins	Lecture		
16	<b>Final Exam</b>			

\*Includes lecture, flipped Class, project-based learning, problem-solving-based learning, collaboration learning.

## Course Contributing to Learner Skill Development

Using Technology
<ul style="list-style-type: none"> <li>• Using PowerPoint or any relevant program for preparing presentations</li> </ul>
Communication Skills
<ul style="list-style-type: none"> <li>• Interaction in class while solving case-study</li> </ul>
Application of Concept Learnt
<ul style="list-style-type: none"> <li>• Apply the knowledge obtained from this course to evaluate exposure associated with toxicants.</li> <li>• Apply the knowledge obtained from this course to solve problems associated with toxicants.</li> </ul>

### Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Mid Term Exam	30%	11 <sup>th</sup> Week	K1, K2, K3, K4, K5, K6
Term Works*	30%	Continuous	K1, K6, S1, S2
Final Exam	40%	16 <sup>th</sup> Week	K3, K4, K5, K6
<b>Total</b>	<b>100%</b>		

\* Include quizzes, in-class and out of class assignments, presentations, reports, videotaped assignment, group, or individual project.

### Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Corresponding Competencies	Learning Method*	Assessment Method**
<b>Knowledge</b>				
<b>K1</b>	To be familiar of main terminology and definitions in toxicology.	<b>C1</b>	Lectures	Subjective quiz Exam/Objective questions
<b>K2</b>	Understand the basic principles of toxicokinetics and toxicodynamics	<b>C1</b>	Lectures	Subjective quiz Exam/Objective questions
<b>K3</b>	Have knowledge of different types of toxicants (household/industrial, medical, and drugs of abuse) and their mechanism of toxicity	<b>C1</b>	Lecture  Problem solving based learning  Collaborative	Case Study  Exam/Objective questions

			learning	
<b>K4</b>	Provide knowledge of the most commonly encountered antidotes, their mechanisms of actions, routes of administration	<b>C1, C2</b>	Lecture  Problem solving based learning	Case Study  Subjective quiz  Exam/Objective questions
<b>K5</b>	To be familiar of clinical presentation of intoxicated patients	<b>C1, C2</b>	Lecture  Problem solving based learning	Case Study  Subjective quiz  Exam/Objective questions
<b>K6</b>	To be familiar of general principles for the management of poisoned patients.	<b>C1, C2</b>	Lecture  Problem solving based learning	Case Study  Subjective quiz  Exam/Objective questions
<b>Skills</b>				
<b>S1</b>	Apply the knowledge obtained from this course to evaluate exposure associated with toxicants.	<b>C7. C8</b>	Lecture  Problem solving based learning	Case Study  Subjective quiz  Exam/Objective questions
<b>S2</b>	Apply the knowledge obtained from this course to solve problems associated with toxicants.	<b>C7. C8</b>	Lecture  Problem solving based learning	Case Study  Subjective quiz  Exam/Objective questions

\*Include: lecture, flipped class, project based learning, problem solving based learning, collaboration learning.

\*\* Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

### Course Policies

Policy	Policy Requirements
<b>Passing Grade</b>	The minimum pass for the course is (50%) and the minimum final mark is (35%).
<b>Missing Exams</b>	<ul style="list-style-type: none"> <li>• Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark.</li> <li>• Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student.</li> <li>• Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam.</li> </ul>

<b>Attendance</b>	The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it.
<b>Academic Integrity</b>	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights.

### Program Learning Outcomes to be Assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Targeted Performance level

### Description of Program learning Outcomes Assessment Method

Number	Detailed Description of Assessment

### Assessment Rubric of the Program Learning Outcomes

--	--