

Philadelphia University	 <b>PHILADELPHIA UNIVERSITY</b> THE WAY TO THE FUTURE	Approved Date: 13/10/2021
Faculty: Pharmacy		Issue: 1
Department:		Credit Hours: 1
Academic Year: 2021/2020		Course Syllabus

### Course Information

Course No.	Course Title	Prerequisite
0510205	Pharmaceutical Organic Chemistry (1)	
Course Type		Room No.
<input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input checked="" type="checkbox"/> Compulsory		400
Class Time		
Sun 02:00-04:00 Mon 02:00-04:00 Tus 02:00-04:00 Wed 08:00-10:00 Wed 02:00-04:00		

### Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
Dr. Mouhamad al-dhoun Assistant Professor	5510	2327		maldhoun@philadelphia.edu.jo
Wafa Hamdan	5413	2353	Sun-wed 10:00-11:00	whamdan@philadelphia.edu.jo
Tahani Bahnasi	5527	2138	Sun-wed 10:00-11:00	Tbahnasi@philadelphia.edu.jo

### Course Delivery Method

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

### Course Description

This course is complementary part to the theoretical lectures provided by the co-requisite course (0511121). The laboratory is divided into two parts; 1<sup>st</sup> part provides an adequate coverage of safety precautions and lab rules that students should strictly follow so that safety can be achieved in the lab and the experiments are designed to familiarize students with techniques commonly used in the organic laboratory. For identification, purification and separation of organic compounds. 2<sup>nd</sup> part includes chemical tests applied for identification of the main classes of organic compounds.

<b>Number</b>	<b>Outcome</b>	<b>Corresponding Program Outcomes</b>	<b>Corresponding Copetencies</b>
<b>Knowledge</b>			
<b>K1</b>	Learn the students Physical and chemical characteristics of organic compounds including determination of the solubility characteristics.	KP1,KP6	<b>C1</b>
<b>K2</b>	Learn the students The mechanism of organic reaction and functional groups	KP1,KP6	<b>C1</b>
<b>K3</b>	Learn the students various identification techniques including melting point determination.	KP1,KP6	<b>C1</b>
<b>K4</b>	Learn the students various separation techniques including Recrystallization, Extraction	KP1,KP6	<b>C1</b>
<b>Skills</b>			
<b>S1</b>	Adapt group discussion technique	SP6	<b>C12</b>
<b>S2</b>	learn handling of glassware in the lab.	SP2,SP3,SP9	<b>C8,C9,C12</b>
<b>S3</b>	learn the student the principle of team-work	SP2,SP3,SP9	<b>C8,C9,C12</b>
<b>S4</b>	Learn different lab techniques as filtration, Decolorization, Drying and Reflux.	SP2,SP3,SP9	<b>C8,C9,C12</b>
<b>S5</b>	Learn how to follow general policies and safety precautions in the lab.	SP2,SP3,SP9	<b>C8,C9,C12</b>

## Course Learning Outcomes

### Learning Resources

<b>Course Textbook</b>	Organic chemistry 7 <sup>th</sup> by John McMurry, edition 2008.
<b>Supporting References</b>	<p>Introduction to organic Chemistry (Study guide and Solutions Manual). By Andrew Streitwieser, Clayton H. Heathercock, Edward M. Cosower. Publisher: Prentice Hall College Div; (December 1998) ISBN: 0130129909.</p> <p>Organic Chemistry. By T.W. Graham Solomons, 8<sup>th</sup> edition 2003.</p> <p>British Pharmacopoeia, U.S. Pharmacopoeia National formulary. The Mark Index, the Martindale 3. Remington: The Science and Practice of Pharmacy. By Alfonso R. Gennaro (Editor) 20<sup>th</sup> edition (December 15, 2000) Lippincott, Williams and Wilkins: ISBN: 0683306472.</p> <p>Organic chemistry 7<sup>th</sup> by John McMurry, edition 2008.</p>
<b>Supporting Websites</b>	<a href="http://www.Philadelphia.edu.jo/pharmacy/resurces.Html">www. Philadelphia.edu. jo/pharmacy/resurces. Html</a>
<b>Teaching Environment</b>	<input type="checkbox"/> Classroom <input checked="" 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	1-Vision and Mission of faculty of pharmacy 2-Safety rules	lecture		Lab manual
2	Introduction of Laboratory rules & safety precautions	practical Flipped Learning		Lab manual
3	Physical and chemical characteristics of organic compounds including determination of the solubility characteristics	Practical Flipped Learning	Report sheet Quiz	Lab manual
4	Determination of melting point.	practical Flipped Learning	Report sheet Quiz	Lab manual
5	Boiling point and Distillation.	Practical	Report	Lab manual

		Flipped Learning	sheet	
6	Recrystallization, a purification technique for solids	practical Flipped Learning	Quiz Report sheet	Lab manual
7	Extraction, a separation and isolation technique	practical Flipped Learning	Report sheet	Lab manual
8	Chemical tests for identification of alcohols	practical Flipped Learning	Report sheet	Lab manual
9	Chemical tests for identification of aldehydes & ketones	practical Flipped Learning	Report sheet	Lab manual
10	Chemical tests for identification of alkenes	practical Flipped Learning	Report sheet	Lab manual
11	<b>Final Exam</b>			

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

### Course Contributing to Learner Skill Development

<b>Using Technology</b>
1-Using Microsoft teams program
2-Using moodle program.
<b>Communication skills</b>
1-report writing
2-team working skills
3- group discussion technique
<b>Application of Concept Learnt</b>
Practical application of extraction ,distillation ,recrystallization techniques

## Assessment Methods and Grade Distribution

Assessment Methods	Grade	Assessment Time (Week No.)	Course Outcomes to be Assessed
Quizzes	% 20	Continous	K1,K2,K3,K4 S1,S2,S3
Reports	% 30	Continous	K1,K2,K3,K4 S1,S2,S3,S4
Practical exam	% 10	11 <sup>th</sup> week	K1,K2 S1,S2,S3
Final Exam	%40	11 <sup>th</sup> week	K1,K2,K3,K4 S1,S2,S3,S4,S5
<b>Total</b>	<b>%100</b>		

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

## Alignment of Course Outcomes with Learning and Assessment Methods

Number	Learning Outcomes	Learning Method*	Assessment Method**	Competencies
<b>Knowledge</b>				
<b>K1</b>	Learn the students Physical and chemical characteristics of organic compounds including determination of the solubility characteristics.	Practical Flipped learning	Subjective Quiz Report	<b>C1</b>
<b>K2</b>	Learn the students The mechanism of organic reaction and functional groups	Practical Flipped learning	Subjective Quiz Report	<b>C1</b>
<b>K3</b>	Learn the students various identification techniques including melting point determination.	Practical Flipped learning	Subjective Quiz Report	<b>C1</b>
<b>K4</b>	Learn the students various separation techniques including Recrystalization, Extraction	Practical Flipped learning	Subjective Quiz Report	<b>C1</b>
<b>Skills</b>				
<b>S1</b>	Adapt group discussion technique	Practical Flipped learning	Subjective Quiz Report	<b>C12</b>

<b>S2</b>	learn handling of glassware in the lab.	Practical Flipped learning	Subjective Quiz Report	<b>C8,C9.C12</b>
<b>S3</b>	learn the student the principle of team-work	Practical Flipped learning	Subjective Quiz Report	<b>C8,C9.C12</b>
<b>S4</b>	Learn different lab techniques as filtration, Decolorization, Drying and Reflux.	Practical Flipped learning	Subjective Quiz Report	<b>C8,C9.C12</b>
<b>S5</b>	Learn how to follow general policies and safety precautions in the lab.	Practical Flipped learning	Subjective Quiz Report	<b>C8,C9.C12</b>

\*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 Polices

<b>Policy</b>	<b>Policy Requirements</b>
<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.
--	--