



Syllabus: Hospital Pharmacy (#1917021567) Second Semester 2022/2023

COURSE INFORMATION	
Course Name: Hospital Pharmacy (face-to-face education) Semester: As per academic year Department: Clinical Pharmacy & Pharmacy Practice Faculty: Pharmaceutical Sciences	Course Code: 1917021567 Section: As per semester Core Curriculum: 2019 Study Plan
Day(s) and Time(s): According to HU courses timetable/semester Classroom: As per semester	Credit Hours: 1 Prerequisites: متزامن 131702566
COURSE DESCRIPTION	
<p>The course provides students with the knowledge and understanding of the responsibilities of the hospital pharmacist. It discusses several relevant topics to hospital pharmacy practice in order to ensure adequate and appropriate healthcare for patients and support to health care professionals. It also focuses on developing and enhancing the student's effective communication skills with all parties involved in the hospital pharmacy practice. Students will be offered learning experience about hospital pharmacy practice through visits to regional hospitals and/or hospital pharmacy simulations at the Faculty of Pharmaceutical Sciences. Topics include hospital pharmacy organization, laws and regulations of hospital pharmacy practice, pharmacy and therapeutic committee, safe use of medications in the hospital, crash cart medications, specialization in pharmacy practice, preparing and administering parenteral medications, and communication skills (nonverbal communication, barriers to communication, ethical patient care, assertiveness).</p>	
DELIVERY METHODS	
<p>The course will be delivered through a combination of active learning strategies. These include:</p> <ul style="list-style-type: none"> • PowerPoint lectures and active classroom-based discussion. <p>Students will be encouraged to participate and be actively involved in the learning process. Lectures will start with questions to inquire about the students' prior knowledge of the topic. These questions will also be repeated at the end of the lecture to gain insight into the students' competences (to verify whether students have understood the topic). During delivering the lecture presentation, time will be given to allow students to reflect about what they have learnt.</p> <ul style="list-style-type: none"> • Video lectures. • E-learning resources: e-reading assignments (as per semester). 	

FACULTY INFORMATION

Name	TBD
Academic Title:	Assistant Professor
Office Location:	Third Floor, office No. TBD
Telephone Number:	Extension: TBD
Email Address:	TBD
Office Hours:	As announced per semester <i>Please send an e-mail (.....i@hu.edu.jo) to meet at any other time.</i>

REFERENCES AND LEARNING RESOURCES

Required Textbook(s):

1. TBD

Suggested Additional Resources:

1. TBD

Useful Web Resource:

AACP/ ACPE/ AMCP/ ASHP best practices/ CMS/ MedinePlus/ Medscape

STUDENT LEARNING OUTCOMES MATRIX

An alignment matrix of the **program** ILOs of the Bachelor of Pharmacy, the **course** ILOs and knowledge, skills and competencies as mentioned in the Jordan National Qualifications Framework (JNQF)

Field according to (JNQF)	Required to achieve (according to (JNQF))	Core curriculum learning outcomes	B.Sc. Pharmacy Program ILOs	Course Objectives (1-14 as below)	Course Student ILOs (A-T as below)	Assessment Method
			Main Domain*	1-14	A-T	
Knowledge	A systematic understanding of the theories, concepts, principles and circulations related to the field of learning, some of which are within the limits of the latest scientific findings	Foundational Knowledge	- Learner	1, 2, 3, 4, 5	a, b, c, d, j	<ul style="list-style-type: none"> - Exams - Quizzes - Seminar - Case studies - Role play - Intervention form
Skills	<p>Mastering the skills and tools required to solve complex problems in a specialized field of study</p> <p>Demonstrate specialized and conceptual skills in the field of study</p> <p>Practice evaluation in planning, design, technical and/or supervisory functions related to products, services or processes</p>	Essentials for Practice and Care	<ul style="list-style-type: none"> - Caregiver - Manager - Promoter - Provider 	<ul style="list-style-type: none"> 2, 6, 11 8, 13, 14 12 13 	<ul style="list-style-type: none"> e, f, g, h, i e, f, g, n, o, s k, l, p, q, p, r 	<ul style="list-style-type: none"> - Exams - Quizzes - Seminar - Case studies - Role play - Intervention form
		Approach to Practice and Care	<ul style="list-style-type: none"> - Creative Thinker & Problem-Solver - Educator - Advocate - Collaborator - Includer - Communicator 	<ul style="list-style-type: none"> 2, 7, 8 9 10, 14 9, 10 	<ul style="list-style-type: none"> h, m, o, s, t k, l g, m, n k, l, o, r 	<ul style="list-style-type: none"> - Exams - Quizzes - Seminar - Case studies - Role play - Intervention form
Competencies	<p>Management of activities and projects</p> <p>Take responsibility for decision-making in work or study contexts</p> <p>Take responsibility for group work and work effectively with peer guidance</p> <p>Transfer and apply diagnostic and creative skills in a range of contexts</p>	Personal & Professional Development	<ul style="list-style-type: none"> - Self-aware - Leader - Innovator - Professional 	<ul style="list-style-type: none"> 12, 13, 14 11, 13, 14 13 11, 13, 14 	<ul style="list-style-type: none"> s m, n s, t m, n, o 	<ul style="list-style-type: none"> - Exams - Quizzes - Seminar - Case studies - Role play - Intervention form
		Pharmaceutical Product Expert	<ul style="list-style-type: none"> - Manufacturer 			<ul style="list-style-type: none"> - Exams - Quizzes - Seminar - Case studies - Role play - Intervention form

Course Objectives**

After course completion students will be able to:

1. Understand and define the different roles a pharmacist may have in a hospital setting, along with current and contemporary issues that dictate practice in the institutional setting including automation, medication safety, formulary management, and antibiotic stewardship.
2. Discuss the role of the joint commission and its specific requirements for pharmacy practice in the hospital.
3. Describe the role for the pharmacist in sterile product preparation and the laws and regulations governing the preparation of these products.
4. Describe the concept of the patient centered approach and the issue of reconciliation of medications.

Course Intended Learning Outcomes** (ILOs)

TBD

*: Please refer to The Faculty of Pharmaceutical Sciences Web address (<https://hu.edu.jo/en/facnew/?unitid=58000000>) for the detailed program ILOs (main domains and sub-domains).

** : Some course objectives and ILOs are adapted from: Glass A., and Lancaster M. Introductory Community Pharmacy Experience PHARMP 511–514 Student Syllabus. University of Washington School of Pharmacy. Available from: https://sop.washington.edu/wp-content/uploads/PharmP_511-514_Student_Guide.pdf

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:

Tel: 00962-5-3903333 **Extension:** 4209

Location: Students Affairs Deanship/ Department of Student Welfare Services

Email: amalomoush@hu.edu.jo
amalomoush@staff.hu.edu.jo

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance.* It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

On average, students need to spend 15 hrs of study and preparation weekly. At the beginning of the lectures, students should be on time and should not leave before the end of the lecture without an accepted excuse. **If the student missed a class, it is him/her responsibility to find out about any announcements or assignments they have missed.** For any clarification, students should communicate with their instructor at her posted office hours or by appointment. Students should listen well to the lecture, if anyone has a question, he/she should ask the instructor. Students can find the course material at the course Microsoft team/Model after the lecture.

Sharing of course materials is forbidden. No course material including, but not limited to, course outline, lecture hand-outs, videos, exams, and assignments may be shared online or with anyone outside the class. Any suspected unauthorized sharing of materials, will be reported to the university's Legal Affairs Office. If a student violates this restriction, it could lead to student misconduct procedures.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of The Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Missed Assessments

In all cases of assessment, students who fails to attend an exam on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a failure .grade for this part of the assessment

- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with university regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Cheating

Cheating, academic misconduct, fabrication and plagiarism will not be tolerated, and the university policy will be applied. Cheating policy: The participation, the commitment of cheating will lead to applying all following penalties together:

- Failing the subject, he/she cheated at
- Failing the other subjects taken in the same course
- Not allowed to register for the next semester
- The summer semester is not considered as a semester

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment:

Assessment	Grade Weighting	Deadline Assessment
First exam	30%	According to HU academic calendar/ semester
Second exam	30%	According to HU academic calendar/ semester
Final Exam	40%	According to HU academic calendar/ semester

Description of Exams

Test questions will predominately come from material presented in the lectures and the lectures themselves. Semester exams may be conducted during the regularly scheduled lecture period. Exam consists of multiple-choice questions.

No make-up exams will be given. Only documented absences will be considered as per HU guidelines. Make-up exams may be different from regular exams in content and format.

Grades are not negotiable and are awarded according to the following criteria:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

“Lecture hours and weeks are approximate and may change as needed”

Note: For the one lecture period per week (S/M/T/W), one lecture period covers 3 lecture hours (165 minutes). The course content specifies chapters of the textbook that will be included in exams.

Topic(s)	Week	Lecture
Topic 1: Introduction to hospital pharmacy & the course outline <ul style="list-style-type: none"> • Classification of hospitals • Organizational pattern • Administration • Clinical departments • Pharmaceutical services division • Nursing, dietetic, pathology, blood bank, radiology and other supportive services • Drug information center • Poison control center and antidote bank • Pharmacy education 	1 & 2	1, 2, 3 & 4
Topic 2: Introduction to hospital pharmacy: <ul style="list-style-type: none"> • Role of pharmacist in hospital • Minimum standards for pharmacies in institutions/hospitals 	3	5 & 6

<ul style="list-style-type: none"> • Research in hospital pharmacy • Inventory management and control • Safe use of medication in the hospital/ Medication safety data sheet 		
Topic 3: Pharmacy formulary and therapeutic committee: <ul style="list-style-type: none"> • General Principles and guidelines to develop Formulary • Format • Preparation of the Formulary • Role of Pharmacist • Benefits and problems • Keeping up to date Formulary 	4 &5	7, 8, 9 & 10
Topic 4: Medication dispensing and distribution system <ul style="list-style-type: none"> • Methods of Dispensing & SOP's • Unit dose dispensing • Other concepts of dispensing, Satellite Pharmacy etc. • Dispensing to inpatients • Dispensing to ambulatory patients/ out-patient pharmacy • Dispensing during off-hours • Distribution of control substance 	6, 7 & 8	7, 8, 9, 10 & 11
Mid-term Exam	8	12
Topic 5: Medication error; evaluation & precautions of medication error: <ul style="list-style-type: none"> • Role of pharmacist in controlling medication error 	9 & 10	13, 14, 15 & 16
Topic 6: Role of clinical pharmacist in clinical departments: <ul style="list-style-type: none"> • Medication reconciliation • Therapeutic drug level monitoring • Patient education and counseling 	11 & 12	17, 18, 19 & 20
Other related topics & review	13 & 14	21, 22, 23 & 24
Final term Exam	15	