

REPUBLIC OF YEMEN

21 September UMAS
Development Academic Center
& Quality Assurance



الجمهورية اليمنية
جامعة 21 سبتمبر
العلوم الطبية والتطبيقية
مركز التطوير الأكاديمي وضمان الجودة

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D

Course Specification of **Community Pharmacy Clerkship**

Course No. (02.01.274)

2022



This template of course specifications was prepared by CAQA, Yemen, 2017.

Prepared by:

Reviewed by:

Head of the Department:

Quality Assurance head

Dean:

Dr. Ali Alyahawi

Dr. Ali Alkaf

Dr. Abdulelah Thabet

Dr. Ali Alyahawi

I. General Information:

1.	Course Title:	Community Pharmacy Clerkship			
2.	Course Code:	02.01.274			
3.	Credit Hours:	Total Credit Hours	Theory Contact Hours		Practical Contact Hours
			Lecture	Tutorial/Seminar	Lab Clinical
		3		--	-- 360 hrs.
4.	Level/ Semester at which this Course is offered:	4 th Level 4 / Summer Semester			
5.	Pre –Requisite (if any):	Pharmacology III			
6.	Co –Requisite (if any):	Pharmacology-IV			
7.	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy, Pharm.D.			
8.	Language of Teaching the Course:	English			
9.	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
10.	Prepared by:	Dr. Ali Alyahawi			
11	Date and Number of Approval by Council:	2022			

II. Course Description:

This course is designed to provide effective and appropriate patient-centered pharmaceutical care in the community pharmacy setting. Each student should finish 360 training hours in this training rotation. Students provide patient education, prescription and OTC recommendations, customer service, and interact with pharmacists, pharmacy staff, and health care professionals. Pharmacy settings may include independent, chain and institutional community sites. The training in community pharmacy will provide students with advanced expertise in accessing, evaluating, and applying information to promote optimal patient care to a diverse population, while enhancing their pharmacy practice and managerial skills to become effective pharmacists in this setting.

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III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs
A. Knowledge and Understanding:		PILOs
a1	State the basic pharmacy concepts including dispensing system, safety management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.	A1, A3
a2	Define the signs and symptoms of conditions frequently encountered in a community pharmacy and different dosage forms and medications used and available in Yemen market.	A2, A4, A5
B. Intellectual Skills:		
b1	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.	B4, B5
C. Professional and Practical Skills:		
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.	C1, C5
D. Transferable Skills:		
d1	Utilize appropriate education and communication strategies for a diverse patient population.	D1
d2	Display self-awareness, self-improvement, and time management	D2

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
	State the basic community pharmacy concepts including dispensing system, safety	- Lecture - Practice in community pharmacy - Self-learning - Interactive Cases discussion	- Exam - Quiz - Assignment

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a1	management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.	- Discussion with community pharmacist and faculty supervisor	
a2	Define the signs and symptoms of conditions frequently encountered in a community pharmacy and different dosage forms and medications used and available in Yemen market.	- Lecture - Practice in community pharmacy - Self-learning - Interactive Cases discussion - Discussion with community pharmacist and faculty supervisor	Exam Quiz Assignment

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.	- Lecture - Practice in community pharmacy - Training manual - Self-learning - Interactive Cases discussion - Discussion with community pharmacist and faculty supervisor	- Exam - Quiz - Assignment

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.	- Lecture - Practice in community pharmacy - Training manual - Self-learning - Interactive Cases discussion	Exam Quiz Assignment

(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
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d1	Effectively use education and communication strategies for a diverse patient population.	- Lecture - Practice in community pharmacy - Training manual - Self-learning	Oral Presentation
d2	Display self-awareness, self-improvement, and time management	- Interactive discussion - Seminar	Oral Presentation

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA	-			
2		-			
Number of Weeks /and Units Per Semester			16	32	

B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	- Definition, history and development of community pharmacy: Orientation - Professional responsibilities of community pharmacists	-	(Site and rotation schedule)	a1
2	- Prescription and prescription handling - Technology techniques in pharmacy practice.	2	60	a 1, b1, c1, d1, d2
3	- Purchase, storage, and inventory control.	2	60	a 1, b1, c1, d1, d2
4	Reconstituting Powders	1	30	a 1, a2, b1, c1, d1, d2
5	- Extemporaneous Compounding	1	30	a 1, a2, b1, c1, d1, d2
6	- OTC Labeling & Therapy: ▪ External and internal analgesics ▪ Antacids ▪ Emetics, and antiemetics	3	90	a 1, a2, b1, c1, d1, d2

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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	- Laxatives and antidiarrheals - Cold and allergy products - Otic, ophthalmic, nasal, rectal, and vaginal products - Vitamins and minerals - Weight control products - Contraceptives - Seasonal products			
7	Health Screening & patient care services in Community Pharmacy (Patient counselling) - Stages of patient counselling - Barriers to effective counseling - Patient counselling points for chronic diseases/disorders - Patient Package Inserts - Patient Information leaflets	3	90	a 1, a2, b1, c1, d1, d2
	- Number of Weeks /and Units Per Semester	12	360 contact hrs.	

C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
2				
Number of Weeks /and Units Per Semester				

VI. Teaching Strategies of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

VII. Assessment Methods of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

VII. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
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No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Assignment 1: Describe the equipment used in pharmacy store	a 1, a2, b1, c1, d1	2 nd	2.5
2	Assignment 2: Which information must be included in the prescription	a 1, a2, b1, c1, d1	6 th	2.5
3	Assignment 3: Discuss points should be considered from pharmacist when prescription or non-prescription (OTC) medicines are described to the patients.	a 1, a2, b1, c1, d1	8 th	2.5
4	Assignment 4: Describe extemporaneous compounding practice by pharmacists with examples	a 1, a2, b1, c1, d1	12 th	2.5
Total				10

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Week 2-12	10	10 %	a 1, a2, b1, c1, d1
2	Midterm Exam (Theory)	Week 8	20	20 %	a 1, a2, b1, c1
3	Adherence to Professional Attitudes	Course Training Period	5	5 %	d1, d2
4	Skills Acquired during Training	Course Training Period	10	10 %	b1, c1, d1, d2
5	Final Exam (Theory)	Week 16	30	30 %	a 1, a2, b1, c1
6	Final Practical Written Exam	Last Week of Training	25	25 %	a 1, a2, b1, c1
Total			100	100%	

IX. Learning Resources:

Prepared by:

Reviewed by:

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1- Required Textbook(s):	
	1. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018. 2. Basic & Clinical Pharmacology, ed. Katzung, 14th edition, 2018.
2- Essential References.	
	1. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition), Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012 2. Lexicomp, (2018). Drug Information Handbook, 27h edition 3. Pharmacy law and practice Fisher, Jonathan, 2006 4. Patient-Centered Pharmacology: Learning System for the Conscientious Prescriber , Tindall, W. N., Sedrak, M. M., & Boltri, J. M, 2013.
3- Electronic Materials and Web Sites etc.	
	1. www.accesspharmacy.com 2. Disease management guidelines.

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance:
	Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness:
	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality:
	No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects:
	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating:
	Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation:
	Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies:

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The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

University of 21 September for Applied & Medical Sciences

Faculty of Clinical Pharmacy

Program of Bachelor of Clinical Pharmacy

Course Plan (Syllabus) of **Community Pharmacy Clerkship**

Course Code. 02.01.274

2022/2023

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Reviewed by:

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I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours				
Location & Telephone No.:	00967775957401					
E-mail:	Alyahawipharm@yahoo.com	SAT	SUN	MON	TUE	WED THU

II. Course Identification and General Information:					
	Course Title:	Community Pharmacy Clerkship			
	Course Code:	02.01.274			
	Credit Hours:	Total Credit Hours	Theory Contact Hours		Practical Contact Hours
			Lecture	Tutorial/Seminar	Lab
		3		--	--
	Level/ Semester at which this Course is offered:	4th Level 4 / Summer Semester			
	Pre –Requisite (if any):	Pharmacology III			
	Co –Requisite (if any):	Pharmacology-IV			
	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy, Pharm.D.			

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	Language of Teaching the Course:	English
	Location of Teaching the Course:	Faculty of Clinical Pharmacy
	Prepared by:	Dr. Ali Alyahawi
11	Date and Number of Approval by Council:	2022

III. Course Description:

This course is designed to provide effective and appropriate patient-centered pharmaceutical care in the community pharmacy setting. Each student should finish 360 training hours in this training rotation. Students provide patient education, prescription and OTC recommendations, customer service, and interact with pharmacists, pharmacy staff, and health care professionals. Pharmacy settings may include independent, chain and institutional community sites. The training in community pharmacy will provide students with advanced expertise in accessing, evaluating, and applying information to promote optimal patient care to a diverse population, while enhancing their pharmacy practice and managerial skills to become effective pharmacists in this setting.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	State the basic pharmacy concepts including dispensing system, safety management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.
a2	Define the signs and symptoms of conditions frequently encountered in a community pharmacy and different dosage forms and medications used and available in Yemen market.
B. Intellectual Skills:	
b1	Construct a systematic approach and formal MTM process including comprehensive

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	medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.
C. Professional and Practical Skills:	
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.
D. Transferable Skills:	
d1	Utilize appropriate education and communication strategies for a diverse patient population.
d2	Display self-awareness, self-improvement, and time management

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours
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No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours
1	NA	-		
2		-		
Number of Weeks /and Units Per Semester			16	32

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours
1	NA	-		
2		-		
3		-		
13	Final Term Exam		16	2
Number of Weeks /and Units Per Semester			16	32

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours
1	NA	-		
2		-		
Number of Weeks /and Units Per Semester			16	32

B Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	- Definition, history and development of community pharmacy: Orientation (site and rotation schedule) - Professional responsibilities of community pharmacists	-	(Site and rotation schedule)
2	- Prescription and prescription handling - Technology techniques in pharmacy practice.	2	60
3	- Deal properly with purchase, storage, and inventory control.	2	60
4		1	

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No.	Tasks/ Experiments	Week Due	Contact Hours
	- Reconstituting Powders		30
5	- Extemporaneous Compounding	1	30
6	- OTC Labeling & Therapy: - External and internal analgesics - Antacids - Emetics, and antiemetics - Laxatives and antidiarrheals - Cold and allergy products - Otic, ophthalmic, nasal, rectal, and vaginal products - Vitamins and minerals - Weight control products - Contraceptives - Seasonal products	3	90
7	- Health Screening & patient care services in Community Pharmacy (Patient counselling) - Stages of patient counselling - Barriers to effective counseling - Patient counselling points for chronic diseases/disorders - Patient Package Inserts - Patient Information leaflets	3	90
	- Number of Weeks /and Units Per Semester	12	360 contact hrs.

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours
1	NA		
2			
Number of Weeks /and Units Per Semester			

VI. Teaching Strategies of the Course:

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VII. Assessment Methods of the Course:

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VIII. Assignments:

No.	Assignments	Aligned CILOs (symbols)	Week Due
1	Assignment 1: Describe the equipment used in pharmacy store	a 1, a2, b1, c1, d1	2nd
2	Assignment 2: Which information must be included in the prescription	a 1, a2, b1, c1, d1	6th
3	Assignment 3: Discuss points should be considered from pharmacist when prescription or non-prescription (OTC) medicines are described to the patients.	a 1, a2, b1, c1, d1	8th
4	Assignment 4: Describe extemporaneous compounding practice by pharmacists with examples	a 1, a2, b1, c1, d1	12th
Total			

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Week 2-12	10	10 %
2	Midterm Exam (Theory)	Week 8	20	20 %
3	Adherence to Professional Attitudes	Course Training Period	5	5 %
4	Skills Acquired during Training	Course Training Period	10	10 %
5	Final Exam (Theory)	Week 16	30	30 %
6	Final Practical Written Exam	Last Week of Training	25	25 %
Total			100	100%
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment

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1	Assignments	Week 2-12	10	10 %
2	Midterm Exam (Theory)	Week 8	20	20 %
3	Adherence to Professional Attitudes	Course Training Period	5	5 %
4	Skills Acquired during Training	Course Training Period	10	10 %
5	Final Exam (Theory)	Week 16	30	30 %
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Total			100	100%

X. Learning Resources:

1- Required Textbook(s):

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XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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3	Exam Attendance/Punctuality:

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4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
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7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.