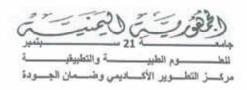
21 September UMAS Development Academic Center & Quality Assurance





University of 21 September for Applied & Medical Sciences

Faculty of Clinical Pharmacy

Bachelor Degree in Clinical Pharmacy

Course Specification of Community Pharmacy

Course No. (02.01.216)

2016/2017

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

Prepared by:

Reviewed by:

Dr. Ali Alkaf

21 September UMAS Development Academic Center & QUALITY ASSURANCE





1.	Course Title:	Community Pharmacy					
2.	Course Code:	02.01.216					
		Total Theory C			Practical Contac		
3.	Credit Hours:	Credit Hours	Lecture	Tutorial/ Seminar	Lab	Clinical	
		4	2			360 hrs.	
4.	Level/ Semester at which this Course is offered:	Level 4 / Summer Semester					
5.	Pre -Requisite (if any):	Pharma	cology III				
6.	Co -Requisite (if any):	Pharma	cology-I\	7			
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:						

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.





	III. Course Intended Learning Outcomes (CILOs); Upon successful completion of the course, students will be able to:	Referenced PILOs
	A. Knowledge and Understanding:	PILOs
al	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
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.	A1, A5
B. Ir	itellectual Skills:	SIL, NOTARIO E A
ы	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.	B2, B6
C. P	rofessional and Practical Skills:	
c1	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.	C3, C4
D. T	ransferable Skills:	
dl	Utilize appropriate education and communication strategies for a diverse patient population.	DI
d2	Display self-awareness, self-improvement, and time management	DI

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies		
al	State the basic community pharmacy concepts including dispensing system, safety management, operational knowledge, and leadership qualities as a practice manager in the community pharmacy setting.	Lecture Practice in community pharmacy Self-learning Interactive Cases discussion Discussion with community pharmacist and faculty supervisor	- Exam - Quiz - Assignment		
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	ExamQuizAssignment		

21 September UMAS Development Academic Center & QUALITY ASSURANCE





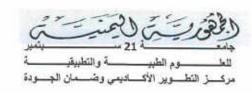
Ŋ	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
bl	Construct a systematic approach and formal MTM process including comprehensive medication reviews (CMR) and targeted interventions to ensure good dispensing practice and demonstrate good pharmacy management skills in a community pharmacy setting.	Lecture Practice in community pharmacy Training manual Self-learning Interactive Cases discussion Discussion with community pharmacist and faculty supervisor	- Exam - Quiz - Assignmen	
	(C) Alignment of Course Intended I Skills) to Teaching Strategies and A	ssessment Methods:	d Practical Assessment	
	Course Intended Learning Outcomes	Teaching Strategies	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	ExamQuizAssignmen	
	(D) Alignment of Course Intended Teaching Strategies and Assessmen		Skills) to	
	Course Intended Learning Outcomes	- Teaching Strategies	Assessment Strategies	
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	- Interactive discussion	Oral Presentation	

	1.7	A	Sept Mark Charles IV	C	A	
	V/.		rse	On	ton	
-		wu	100 100			

A. Theoretical Aspect:

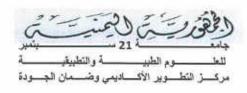
No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Community Pharmacy Overview	 Community pharmacy concepts The responsibilities of community pharmacist and his relationship with the other health care professionals and the patients. Health informatics use in a community pharmacy setting 	2	4	a1, a2





No.	Units/Topics List	Sub Topics List	No. of Weeks	Contact Hours	Learning Outcomes (CILOs)
2	OTC Medications for Respiratory system	 Symptom & Diagnosis: Cough, Common cold, Sore throat, and Rhinitis OTC Products for treatment 	2	4	a1, a2, b1 c1, d1, d2
3	OTC Medications for Ear condition	Symptom & Diagnosis: Ear wax impaction and Otitis externa. OTC Products for treatment	1	2	a1, a2, b1 c1, d1, d2
4	OTC Medications for the central nervous system	Symptom & Diagnosis: Headache, Insomnia, Nausea and vomiting. OTC Products for treatment	2	4	a1, a2, b1 c1, d1, d2
5	Med Exam		1	2	
6	OTC Medications for Women's health	Symptom & Diagnosis: Cystitis, primary dysmenorrhea, vaginal discharge, premenstrual syndrome and heavy menstrual bleeding OTC Products used	2	4	a1, a2, b1 c1, d1, d2
7	OTC Medications for Hemorrhoids	- Symptom, diagnosis - OTC Products for minor hemorrhoids	Ī	2	a1, a2, b1 c1, d1, d2
8	OTC Medications for Skin Conditions	Athlete's foot Symptom & Diagnosis OTC Products for treatment	1	2	a1, a2, b1 c1, d1, d2
9	OTC Medications for Nappy rash	 Nappy rash Symptom & Diagnosis OTC Products For nappy rash. 	1	2	a1, a2, b1 c1, d1, d2
10	OTC Medications for Candidiasis	- Candidiasis Symptom & Diagnosis - OTC For Candidiasis	1	2	a1, a2, b1 c1, d1, d2
11	OTC Medications for Psoriasis	Psoriasis Symptom & DiagnosisOTC Products for Psoriasis	1	2	a1, a2, b1 c1, d1, d2
13	Final Term Exam		16	2	a1, a2, b1 c1, d2
	Number of Weeks	s /and Units Per Semester	16	32	

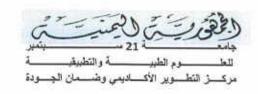




pharmacy: Orientation Professional responsibilities of community pharmacists 2 - Prescription and prescription handling Technology techniques in pharmacy practice. 3 - Purchase, storage, and inventory control. 4 - Reconstituting Powders 5 - Extemporaneous Compounding OTC Labeling & Therapy: External and internal analgesics Antacids Emetics, and antiemetics Laxatives and antidiarrheals Cold and allergy products Cold and allergy products Vitamins and minerals Weight control products Contraceptives Seasonal products Health Screening & patient care services in Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counselling Barriers to effective counselling Barriers to effective counselling	No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
- Technology techniques in pharmacy practice. 3 - Purchase, storage, and inventory control. 4 - Reconstituting Powders 5 - Extemporaneous Compounding - OTC Labeling & Therapy:	1	pharmacy: Orientation - Professional responsibilities of community	н	(Site and rotation schedule)	a 1
4 - Reconstituting Powders 1 30 5 - Extemporaneous Compounding 1 30 - 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 Health Screening & patient care services in Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counseling	2		2	60	a1, b1, c1 d1, d2
- Reconstituting Powders 30 - Extemporaneous Compounding 1 30 - OTC Labeling & Therapy:	3	- Purchase, storage, and inventory control.	2	60	a1, b1, c1 d1, d2
- Extemporaneous Compounding - 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 - Health Screening & patient care services in Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counseling	4	- Reconstituting Powders	1	30	a1, a2, b1 c1, d1, d2
- 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 Health Screening & patient care services in Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counseling	5	- Extemporaneous Compounding	1	30	a1, a2, b1 c1, d1, d2
Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counseling	6	 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	a1, a2, b1 c1, d1, d2
Patient counselling points for chronic diseases/disorders 3 90 Patient Package Inserts Patient Information leaflets	7	Community Pharmacy (Patient counselling) Stages of patient counselling Barriers to effective counseling Patient counselling points for chronic diseases/disorders Patient Package Inserts	3	90	a1, a2, b1 c1, d1, d2

21 September UMAS Development Academic Center & QUALITY ASSURANCE





VI. Teaching Strategies of the Course:

- Lecture
- Practice in community pharmacy
- Self-learning
- Interactive Cases discussion
- Discussion with community pharmacist and faculty supervisor
- Training manual

VII. Assessment Methods of the Course:

- Exam
- Quiz
- Assignment
- Oral Presentation & seminar

No.	Assignments	Aligned CILOs (symbols)	Week Due	Mark
1	Assignment 1: Describe the equipment used in pharmacy store	a1, a2, b1, c1, d1	2 nd	2.5
2	Assignment 2: Which information must be included in the prescription	al, 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.	a1, 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
75	Total		-	10

21 September UMAS Development Academic Center & QUALITY ASSURANCE





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 %	a1, a2, b1, c1, d1
2	Midterm Exam (Theory)	Week 8	20	20 %	a1, 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	MEDICAL PROPERTY.	100	100%	Name of the last

IX. Learning Resources:

1- Required Textbook(s):

- 1. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.
- 2. Basic & Clinical Pharmacology, ed. Katzung, 14th edition, 2018.

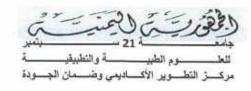
2- Essential References.

- 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
- 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.

- www.accesspharmacy.com
- 2. Disease management guidelines.





	Class Attendance:
1	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: 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.

21 September UMAS Development Academic Center & QUALITY ASSURANCE





21 September University for Medicals & Applied Sciences

Faculty of Clinical Pharmacy

Program of Bachelor of Clinical Pharmacy & Pharm D

Course Plan (Syllabus) of Community Pharmacy
Course Code. 02.01.216

2016/2017

21 September UMAS Development Academic Center & QUALITY ASSURANCE





I. Information about Course:	it Faculty Member Res	pon	sibl	e for	the	9	
Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours			W.		
Location& Telephone No.:	00967775957401			1			113
E-mail:	Alyahawipharm@yahoo.com	SAT	SUN	MON	TUE	WED	THU

II. Course Identification and General Information:

1.	Course Title:	Community Pharmacy				
2.	Course Code:	02.01.216				
	Credit Hours:	Total Credit Hours	Theory Contact Hours		Practical Contact Hours	
3.			Lecture	Tutorial/ Seminar	Lab	Clinical
		4	2		-	360 hrs.
4.	Level/ Semester at which this Course is offered:	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:					

21 September UMAS
Development Academic Center
& QUALITY ASSURANCE





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:
al	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 Yemer market.
B. It	tellectual Skills:
ы	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.
C. P	rofessional and Practical Skills:
cl	Perform efficiently and effectively responsibilities and task in a community pharmacy setting using technology techniques.
D. T	ransferable Skills:
dl	Utilize appropriate education and communication strategies for a diverse patient population.
d2	Display self-awareness, self-improvement, and time management

21 September UMAS Development Academic Center & QUALITY ASSURANCE





V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	No. of Weeks	Contac
1	Community Pharmacy Overview	 Community pharmacy concepts The responsibilities of community pharmacist and his relationship with the other health care professionals and the patients. Health informatics use in a community pharmacy setting 	2	4
2	OTC Medications for Respiratory system	 Symptom & Diagnosis: Cough, Common cold, Sore throat, and Rhinitis OTC Products for treatment 	2	4
3	OTC Medications for Ear condition	 Symptom & Diagnosis: Ear wax impaction and Otitis externa. OTC Products for treatment 	1	2
4	OTC Medications for the central nervous system	 Symptom & Diagnosis: Headache, Insomnia, Nausea and vomiting. OTC Products for treatment 	2	4
5	Med Exam		1	2
6	OTC Medications for Women's health	 Symptom & Diagnosis: Cystitis, primary dysmenorrhea, vaginal discharge, premenstrual syndrome and heavy menstrual bleeding OTC Products used 	2	4
7	Hemorrhoids	Symptom, diagnosis OTC Products for minor hemorrhoids	1	2
8	OTC Medications for Skin Conditions	Athlete's foot Symptom & Diagnosis OTC Products for treatment	1	2
9	OTC Medications for Nappy rash	 Nappy rash Symptom & Diagnosis OTC Products For nappy rash. 	1	2
10	Candidiasis	 Candidiasis Symptom & Diagnosis OTC For Candidiasis 	1	2
11	Psoriasis	Psoriasis Symptom & Diagnosis OTC Products for Psoriasis	1	2
13	Final Term Exam		16	2
Number of Weeks /and Units Per Semester		16	32	

21 September UMAS Development Academic Center & QUALITY ASSURANCE





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 	40	(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	- Reconstituting Powders	1	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.

21 September UMAS Development Academic Center & QUALITY ASSURANCE





VI. Teaching Strategies of the Course:

- Lecture
- Practice in community pharmacy.
- Self-learning
- Interactive Cases discussion
- Discussion with community pharmacist and faculty supervisor
- Training manual

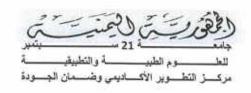
VII. Assessment Methods of the Course:

- Exam
- Quiz
- Assignment
- Oral Presentation & seminar

No.	Assignments	Aligned CILOs (symbols)	Week Due
Ĭ.	Assignment 1: Describe the equipment used in pharmacy store	a1, a2, b1, c1, d1	2nd
2	Assignment 2: Which information must be included in the prescription	a1, 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.	a1, a2, b1, c1, d1	8th
4	Assignment 4: Describe extemporaneous compounding practice by pharmacists with examples	a 1, a2, b1, c1, d1	12th

21 September UMAS Development Academic Center & QUALITY ASSURANCE





	IX.	Schedule of Assessment Tasks for Students During the Semester:
П	Ache	benedule of Assessment Lasks for students builing 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%

X. Learning Resources:

1- Required Textbook(s):

- 3. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.
- 4. Basic & Clinical Pharmacology, ed. Katzung, 14th edition, 2018.

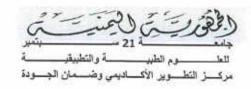
2- Essential References.

- Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition), Cipolle, RJ, Strand, LM, & Morley, PC, McGraw-Hill, 2012
- 6. Lexicomp, (2018). Drug Information Handbook, 27h edition
- Pharmacy law and practice Fisher, Jonathan, 2006
- 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.

- 3. www.accesspharmacy.com
- Disease management guidelines.





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