



**King Saud University**  
**College of Pharmacy**  
**Medication Therapy Management - 1**  
**Course Syllabus**

## I. GENERAL INFORMATION

<b>Course Number:</b>	PHCL 436
<b>Course Title</b>	Medication Therapy Management-1
<b>Lecture Hours Per Week</b>	2
<b>Credit Hours Per Semester</b>	2 (2+0)
<b>Admission Particulars</b>	<b>Pre-requisites:</b> PHCL 423 <b>Co-requisites:</b> None
<b>Course Director:</b>	<b>Male Campus:</b> <b>Dr. Omar Almohammed, BPharm, PharmD, PhD.</b> Assistant Professor, Clinical Pharmacy Department <b>Office Location:</b> TBA <b>Phone:</b> TBA <b>Email:</b> oalmohammed@ksu.edu.sa <b>Office hours:</b> by appointment  <b>Female Campus:</b> <b>Dr. Lobna Al Juffali, BPharm, MSc, PhD.</b> Assistant Professor, Clinical Pharmacy Department <b>Office Location:</b> Building 8, 3rd Floor, room 29 <b>Phone:</b> 011 8052701 <b>Email :</b> laljaffali@ksu.edu.sa <b>Office hours:</b> by appointment
<b>Clock hours &amp; Locations:</b>	<b>Days and time:</b> Monday 8:00 - 10:00 AM <b>Male campus:</b> 23 G A 052 <b>Female campus:</b> TBA

## II. PARTICIPATING FACULTY

<b>Dr. Nouf M. Aloudah, Msc, PhD</b> <b>Position:</b> Assistant Professor <b>Office Location:</b> Building 8, 3rd Floor, room 36 <b>Phone:</b> 0118050966 <b>Email:</b> naloudah@ksu.edu.sa <b>Office hours:</b> by appointment	<b>Dr. Mansour Almetwazi, BPharm, PharmD, PhD.</b> <b>Position:</b> Assistant Professor <b>Office Location:</b> 1A 201 <b>Phone:</b> 0114698081 <b>Email:</b> mmetwazi@ksu.edu.sa <b>Office hours:</b> by appointment
<b>Dr. Jamilah Alsaidan, MSc.</b> <b>Position:</b> Lecturer <b>Office Location:</b> Building 8, 3rd Floor, room 71 <b>Phone:</b> :0118052950 <b>Email:</b> jalsaidan@ksu.edu.sa <b>Office hours:</b> by appointment	<b>Dr. Yazeed Ghawaa, BPharm, MSc.</b> <b>Position:</b> Lecturer <b>Office Location:</b> TBA <b>Phone:</b> TBA <b>Email:</b> yghawaa@ksu.edu.sa <b>Office hours:</b> by appointment



### III. COURSE DESCRIPTION

This course is a survey of topics in the social and behavioral sciences as they apply to pharmacy practice. It is a part of a 2 course series that introduce the Medication Therapy Management service (MTM) to optimize therapeutic outcomes through appropriate drug use, enhanced patient understanding of appropriate drug use, increased patient adherence with prescribed drug therapies, and reduced risk of adverse events associated with drugs.

### IV. COURSE OBJECTIVES

**At the completion of the course series, the student should be able to:**

1. Develop deeper and more detailed appreciation of how social and behavioral sciences are applied to problems in pharmacy, health, and illness.
2. Acquire skills required to understand and apply social and behavioral principles in the design, delivery and evaluation of pharmaceutical care.

### V. COURSE ABILITY OUTCOMES

**Following the successful completion of this course, a student will be able to:**

1. Discuss the importance of behavioral and social theories to pharmaceutical care practice and research.
2. Describe relevant behavioral theories of health, illness and medication use, and apply these theories to the pharmacotherapy plan.
3. Identify and describe social and behavioral factors associated with medication nonadherence and identify strategies to improve adherence.
4. Apply social and behavioral research to understand and improve pharmaceutical care.
5. Demonstrate sensitivity to the various multicultural factors involved in pharmaceutical care.
6. Display professional attitudes, beliefs and behaviors in the delivery of pharmaceutical care.

### VI. RESOURCES

Title of the book	Author's name	Publisher's name	Date of publication
Social and Cognitive Pharmacy: Theory and Case Studies, First Edition	Donyai, Parastou	Pharmaceutical Press	2012
Social and Behavioral Aspects of Pharmaceutical Care, Second Edition	Rickles NM	Informa Healthcare	2011
Health Behavior and Health Education: Theory, Research, and Practice, 4th Edition	Glanz K	Wiley	2008
ABC of Behaviour Change Theories an Essential Resource for Researchers, Policy Makers and Practitioners	Susan Michie	Silverback	2015

#### **REQUIRED INSTRUCTIONAL MATERIALS:**

- All supplemental materials will be available to students electronically through blackboard. (<https://lms.ksu.edu.sa/>) or distributed by faculty members via email or in class. It is the student responsibility to check the blackboard site regularly for any updates.

## VII. COURSE POLICIES

### A. ACADEMIC DISHONESTY/PLAGIARISM

- Students are expected to demonstrate professionalism and honesty during this course. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Students found in violation of such policy are subjected to disciplinary actions as per University Policy.
- Please read the manual of study and tests for undergraduate students and operational rule (لائحة الدراسة والاختبارات للمرحلة الجامعية والقواعد التنفيذية المعتمدة) <http://dar.ksu.edu.sa/Regulations>
- Please read the manual of students rights and duties (لائحة تأديب الطلاب بجامعة الملك سعود) <http://dar.ksu.edu.sa/Regulationss>

### B. CLASS PARTICIPATION AND PROFESSIONALISM

- It is expected that all students come to class prepared by completing where applicable all assigned readings, online homework, and other assignments before class and ready to actively participate in classroom activities. Faculty will clarify and expand on the reading material. Use of phones is prohibited during class.

### C. GUIDELINES FOR E-MAIL COMMUNICATION

- E-mail is often perceived as an informal method of communicating, but some basic rules of style or etiquette are expected. In general, rules of common courtesy for interaction with people should be used for any situation and on the internet, it is especially important where, for example, body language and tone of voice must be inferred.
  1. **All emails should be sent from your KSU account ONLY**
  2. Mail should have a subject heading which reflects the content of the message.
  3. Your message should begin with an appropriate salutation, including the name of the person being addressed, and end with the full name of sender.
  4. Use mixed case and proper punctuation.
  5. Current e-mail addresses for all students must be maintained in the Blackboard system. Each student must edit this in the "Personal Information" section of "Tools". Faculty will not be able to contact you if your email address is not updated and you could miss important information about courses.
  6. **Check your e-mail daily.** Most information and communication from instructors will come via e-mail or will be posted on Blackboard under announcements.
  7. **Failure to check email/Blackboard may result in you missing important assignments and subsequently affect your grade.**
  8. Direct your request to the appropriate person, as indicated below. Please note that discussion board posts are preferred whenever your questions do not involve personal matters to reduce the number of individual emails.



- **Questions concerning lecture content:**
  - First, post your question on the **discussion board of Blackboard**. All faculty teaching in this course have access to blackboard and will reply to questions posted. Other students may have the same question that you have or may have the answer. Please allow adequate time for faculty to respond.
  - Inquire if the faculty member teaching that lecture has office hours and try to attend.
  - If neither of the above steps adequately answers your question, email the faculty member teaching that lecture.
- **General course questions or if you are unsure of where to direct questions:**
  - Contact the Course Director if your question involves a personal matter. Post general course related questions on the **discussion board** dedicated to the overall course logistics.
  - **DO NOT** send message to "All Instructors".

#### **D. ATTENDANCE AND EXCUSED ABSENCE**

- In the case of illness or prolonged absence, it is the student's responsibility to notify the faculty member and/or the Course Director within 5 days from the first date of absence. Exceptions to the five day notification period are rare and can only be approved by the Vice Dean of Academic Affairs. With acceptable documentation from a student, an official memorandum will be issued notifying faculty of an excused absence. In the case of a legitimate excused absence, course instructors will make all reasonable attempts to assist the student to satisfy requirements of the course.
- Students missing 25% or more on attendance are forbidden from setting in the final exam per University Policy.
- If a student missed a midterm exam for an **ELIGIBLE** reason, Student must submit proper documentation within 2 weeks of scheduled exam time to the faculty member and the course coordinator.
- For any missed exams, student should fill a make-up exam form (pick up from department secretary) and obtain the necessary signatures and approvals from faculty member, the course director and head of the department.
- The faculty member has the right to determine the method for make-up exam, which can be any of the following:
  - Increasing the percentage of the remaining exams to cover the missed exam
  - Assigning the final exam a higher percentage to cover the missed exam for that student
  - A make-up exam (the exam will be based on short answer questions)
  - If the final is cumulative, the section relating to the missed examination material can be used as the grade for that missed exam.

### **VIII. EXAMINATION AND GRADING CRITERIA**

#### **A. EXAMS/QUIZZES:**

One midterm and a final exam will be administered throughout this module. The final course grade will be calculated based on the total number of points earned on each examination in comparison to the total number of points available.

**B. ASSIGNMENTS & SUBMISSION**

- Late assignments/homework will be penalized by 15% reduction in grade per day late.
- Assignments is based on each topic is according to each topic instructor.

**C. GRADE DISTRIBUTION**

<b>Assignments</b>	Article discussion	<b>10%</b>
	Project	<b>20%</b>
	In class activity 1: To be discussed with each faculty	<b>5%</b>
	In class activity 2: Reflection on the article discussion	<b>5%</b>
<b>Midterm Exam</b>	One midterm exam <b>(29 October, 2018)</b>	<b>20%</b>
<b>Final Exam</b>	The exam is cumulative, number and type of questions will be the same as previous exam <b>(TBD)</b>	<b>40%</b>
<b>Total</b>		<b>100%</b>

Topic	Activity	Date
Health Belief Model	Article discussion	<b>26 November</b>
Transtheoretical Model	Article discussion	
Diffusion of Innovation	Article discussion	
Patient-Provider communication and patient decision making	Article discussion	<b>3 December</b>
Physician Prescribing Behavior	Article discussion	
Social Networks and Support	Article discussion	

**D. CONFLICT RESOLUTION:**

- Any issues related to this course teaching, examinations and grading should be resolved with the course instructor promptly to ensure healthy learning atmosphere.
- Unresolved matter should be directed to the course coordinator. If matter is not yet resolved, please direct your complaint to the department head/Vice Head.

**E. CHANGE IN THE COURSE SYLLABUS OR GRADE DISTUBITION:**

- Students will be notified with any changes to the course syllabus or grade distribution.

**F. GRADING SCALE:**

- Grades will be earned based on KSU grading policy and the following scale:

Letter Grade	Score Achieved	Letter Grade	Score Achieved
<b>A+</b>	> 95%	<b>C+</b>	75 - 79.99 %
<b>A</b>	90 - 94.99 %	<b>C</b>	70 - 74.99 %
<b>B+</b>	85 - 89.99 %	<b>D+</b>	65 - 69.99 %
<b>B</b>	80 - 84.99 %	<b>D</b>	60- 64.99 %
		<b>F</b>	< 60%

## G. COURSE SCHEDULE

Week #	Lecture #	Day	Date	Topic of lecture	Presenter
1	1	Mon	3 September	Introduction, objectives and assessments of the course	OA/NA
2	2	Mon	10 September	Importance of social and behavioral pharmacy	OA/NA
3	3	Mon	17 September	Generation of pharmacy related sociological and psychological knowledge	OA/NA
4	4	Mon	24 September	Saudi National Day Holiday (No lecture)	
5	5	Mon	1 October	Identifying, characterizing and using the behavior change theories General observations about behavior change theories and how to use it for intervention development	OA/NA
6	6	Mon	8 October	Health belief model	MM/LJ
7	7	Mon	15 October	Transtheoretical model	MM/LJ
8	8	Mon	22 October	Diffusion of Innovation	MM/LJ
10	10	Mon	29 October	Patient-Provider communication and patient decision making	YG/JS
11	11	Mon	12 November	Physician Prescribing Behavior Social Networks and Support	YG/JS
12	12	Mon	19 November	Medication Adherence	YG/JS
<b>13</b>	<b>13</b>	<b>Mon</b>	<b>19 November</b>	<b>Midterm Exam</b>	<b>OA/LJ</b>
13	25	Mon	26 November	Articles Discussion	OA/LJ
14	27	Mon	3 December	Articles Discussion	YG/LJ
15	25	Mon	10 December	Project discussion	OA/LJ
			<b>TBD</b>	<b>Final Exam</b>	<b>OA/LJ</b>

OA: Dr. Omar Almohammed; MM: Dr. Mansour Almetwazi; YG: Dr. Yazeed Ghawaa  
 NA: Dr. Nouf Aloudah; LJ: Dr. Lobna Al Juffali; JS: Dr. Jamilah Alsaidan

## Description of Course Assignments

### 1. Article discussion (10 points)

*The objective of this assignment*

1. To understand how behavioral theories of health, illness and medication use are applied into research and practice.
2. The student should be able to differentiate culture differences between Saudi population and other population and how to apply such research in Saudi Arabia.

*The assignment description:*

1. You will be divided into groups, but each student will work **individually**.
2. Each group will be given an article related to one of the theories in social pharmacy.
3. You are required to **write a reflection** and lead a **discussion** about this article.
4. Each student should work individually to review the article, critique it and write his/her **own reflection** on this article.
5. Discuss how does this research add to pharmacy, weak points and the strong points in this research, and what did this article add to your knowledge.

*This assignment is two parts:*

#### Part one: a paper (7 out of 10 points)

A written reflection about 300 words long no more than one page. The paper must be typed, double-spaced, 12 font, and one-inch margins or they will not be accepted. Late papers will not be accepted. Students handing in papers late will automatically receive a grade of **zero**. **The paper should be handed no later than 12 p.m. of the day before the discussion lecture.**

The paper will be graded as follow:

1. The clarity of the idea: **(2 points)**, this paper reflects your own opinion it needs to be clear and well presented.
2. The content which should include: **(4 points)**
  - The benefits of this research to pharmacy practice
  - Weak points and the strong points in this research
  - Culture differences that can be identified in this paper (for example limitations in applying this research in Saudi Arabia)
  - What did this article add to your knowledge?
3. Spelling errors **(1 point)**

#### Part two: in-class discussion **(3 out of 10 points)**

As a team, be ready to discuss your article for the duration of 50 minutes. The discussion will be open with questions from the audience (the tutor and students)

- Start by providing a brief summary about the article
- Evaluate the research method and study results
- Discuss the application of this kind of research in pharmacy practice
- Discuss how this theory can be developed and adapted in Saudi Arabia
- Answer questions from the audience

The article discussion will be evaluated according to the evaluation criteria presented in **Appendix 1**

## 2) Project (20 points)

*The objectives of this assignment:*

1. To communicate with patients and understand the aspects of social pharmacy in designing a pharmaceutical care plan.
2. To apply social and behavioral research to understand and improve pharmaceutical care.
3. To be able to apply the appropriate behavioral theory to any given disease or condition.

*The assignment description:*

1. Students will work **individually** and **in groups** on this assignment.
2. Each student will be required to complete a project involving a patient interview.
3. Each group will choose a family member with a certain disease and communicate with the patient through a short interview (**you have to record it**).
4. The group is required to assess the patient and apply the appropriate theory on his case through the following:
  - Assess the patient diseases.
  - Choose the appropriate theory that describes the patient beliefs and behavior.
  - Describe the factors that affect the pharmaceutical care plan through the chosen theory.
  - Recommendation for the patient plan.

**A written paper should be handed in week 13**, the paper must be typed, double-spaced, 12 font, with one-inch margins and not more than 5 pages in length. **Late papers will not be accepted.** Students handing in papers late will automatically receive a grade of zero.

*Grading of the project:*

Patient case scenario (containing the patient age, short description of the patient condition)	3 points
The chosen theory (based on the student assessment)	3 points
The Justification (why did you choose this theory) this part should be detailed, provide evidence from the patient case.	6 points
The student's recommendation to improve the patient outcome	4 points
References	1 point
Spelling and organization	1 point
Oral Discussion	2 point
Total	20 points

## 3) In class activity (10 points)

*There will be two types of activities:*

- a. In class activities given throughout the course; to be discussed with each faculty member **(5 points)**.
- b. In class activities during the article discussion sessions (discussed above) were the students (the audience) will answer number of questions related to the article discussed by their colleagues **(5 points)**.



## Appendix 1

### Evaluation of the article discussion

Students' Names: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: \_\_\_\_\_

- 1 = Unacceptable
- 2 = Poor
- 3 = Acceptable or good
- 4 = Very good
- 5 = Excellent or exceptional

Dimension	Score
1. A brief summary about the article	1   2   3   4   5
2. Evaluate the research method and study results	1   2   3   4   5
3. Discuss the application of this kind of research in pharmacy practice	1   2   3   4   5
4. Discuss how this theory can be developed and adapted in Saudi Arabia	1   2   3   4   5
5. Answer questions from the audience	1   2   3   4   5
6. Level of student involvement	1   2   3   4   5
Total score	
Grade of in class discussion out of 6 (Divide the total score by 5)	

Comments:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Preceptor Name & Signature: \_\_\_\_\_ Date: \_\_\_\_\_