**PHCL 313 (1+1)**

**Pharmacy Practice Lab 1**

**Course Syllabus**

**Course Coordinator/Teaching Faculty**

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| **Lab Instructor** | |
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## Course Day & Times

Lecture time: Wednesday, 8-9 a.m., Building 8, Second Floor, Classroom # S06

Lab Time: Sunday, 1-4 p.m., Building 8, Second Floor, Classroom # S06

## Course Description

This course consists of 6 consecutive courses that deal with the practical application of scientific and clinical knowledge used in the provision of pharmaceutical care. Activities include professionalism, communication skills, prescription compounding, calculations, use and practice of drug information, physical assessment, devices-use competency, adherence, and medication safety. The course will utilize, problem based learning and simulated or actual clinical cases to continue development of students’ knowledge base in human disorders and therapeutics and enhance their skills in problem solving, organization, communication, and literature assessment. Students will also learn how to recommend over-the-counter (OTC) products, dietary supplements, natural products and other alternative medicine therapies.

## Course Objectives

At the completion of this course the student should be able to:

**Knowledge:**

1. Apply knowledge learned in pharmacology, medicinal chemistry, pharmaceutics to a patient case
2. Understand the role and the responsibility of the pharmacist as a pharmaceutical care practitioner
3. Gain knowledge on the basic physical assessment techniques
4. Learn the basic components of an effective patient interview

**Cognitive:**

1. Obtain patient medication history (medical, social, medication management, and / or social/financial)
2. Conduct a physical assessment and/or review of systems
3. Review a patient record
4. Correctly measure and evaluate vital signs (temperature, blood pressure, pulse and respirations) of a patient and assess for variables which may affect the reading
5. Gather, organize and document accurate and comprehensive patient information
6. Counsel patient on a prescription
7. Interpret and evaluate a prescription for completeness, legality and errors
8. Recognize daily requirements of vitamins and minerals to all age groups

**Interpersonal and Communication Skills:**

1. Carry out duties in accordance with legal, ethical, social, economic, and professional guidelines
2. Demonstrate the professional demeanor necessary to practice as a professional pharmacist
3. Provide accurate and succinct verbal or written information that is appropriate for the target audience (e.g. patient, caregiver or other heath care professional).
4. Demonstrate the ability to deal with difficult patients and situations
5. Demonstrate effective patient interviewing and counseling techniques.
6. Accurately calculate dosages as ordered by health care professional(s).
7. Display verbal and non-verbal mannerisms that promote empathetic, respectful and compassionate communication

## Reading Material

**Course materials:**

1. Rhonda M Jones & Raylene M Rospond. Patient Assessment in Pharmacy Practice. Lippincott Williams & Wilkins; 2nd edition. 2008
2. Tietze KJ. Clinical Skills for Pharmacists: A Patient-Focused Approach. Mosby; 3rd edition. 2011
3. Communication Skills for Pharmacists: Building relationships, improving care. APhA publication, 1st ed. 2002

Extra References

1. Lippincott Williams & Wilkins; 2nd ed. 2008 2. Rantucci, Melanie J., *Pharmacists Talking with Patients: A Guide to Patient Counseling*. Second Edition, Lippincott Williams & Wilkins, 2007.
2. Rovers JP and Currie JD. *A* *Practical guide to Pharmaceutical Care: A Clinical Skills Primer*. 3rd Ed, Washington DC, APhA; 2007 **5.** Bruce Berger.
3. Saudi National Formulary
4. Related internet sites

**Availability of copies of the required chapters will be arranged by each lecturer**

**Supplemental materials will be provided by each lecturer during class.**

## Grade Policy and Distribution

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| --- | --- |
| **Mid Term Exam x 2 (according to college schedule)** | **10 points each = 20 points** |
| **Lab Activities/assignments** | **30 points**  **(description of lab activity including objective and assessment criteria will be provided on weekly basis)** |
| **Project** | **10 points** |
| **Final exam (comprehensive)** | **40 points**  **OSCE 10 points Written 30 points** |
| **Total** | **100 points** |

## Course Outline

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| **Week #** | **Lecture Date (G)** | **Lectures**  **Wednesday 8-9 a.m.** | **Lab**  **Sunday 1-4 p.m.** |
| **Week 1**  **Lect. GA** | 26  Aug. | Introduction: course objectives, course syllabus (lab activities, expectations for the course, grade distribution, attendance..etc). | **No lab** |
| **Week 2**  **Lect. GA** | 2  Sept. | Role of pharmacist in patient care  **Professionalism Assignment** | Introduction: course objectives, course syllabus (lab activities, expectations for the course, grade distribution, attendance..etc). |
| **Week 3**  **Lect. GA** | 9  Sept. | Communication skills for pharmacist- 1: The basics | - Professionalism Discussion (discussion of students’ assignment)  - Introducing the Empathy Project |
| **Week 4**  **Lect. GA** | 16  Sept. | Communication Skills for pharmacist- 2: Patient interview/medication history  **A relative medication Hx assignment** | - Basic communication skills video discussion |
| **Week 5** | 23  Sept. | **Hajj Holiday** | |
| **Week 6** | 30  Sept. | Prescription counseling | **Hajj Holiday** |
| **Week 7**  **Lect. GA** | 7  Oct. | Physical Examination 1 | Patient interview and medication history exercise/role playing |
| **Week 8**  **Lect. GA** | 14  Oct. | Physical Examination 2  Vital Signs (Pulse, BP, Respiration, temperature) | - Simulated patient interview  - Empathy Project results & discussion  - Prepare for Rx counseling: **Hydrochlorothiazide** |
| **Week 9**  **Lect. GA** | 21  Oct. | Review of System :  Head & neck, Skin | - Prescription components & hospital file review  - Rx counseling: **Hydrochlorothiazide** |
| **Week 10**  **Lect. BK** | 28  Oct. | Review of System :  Respiratory system | -Measuring BP, Pulse, RR, & Temp |
| **Week 11**  **Lect. BK** | 4  Nov. | Review of System:  Cardiovascular system | - Cases (Respiratory)  - Using inhalers, peak flow meters, nebulizers  - Prepare for Rx counseling: **Atenolol,**  **lisinopril** |
| **Week 12**  **Lect. BK** | 11  Nov. | Review of System:  GI/Endocrine system | - Cases (Cardiovascular)  - Rx counseling: **Atenolol, lisinopril**  - Prepare for Rx counseling: **Verapamil** |
| **Week 13**  **Lect. BK** | 18  Nov. | Review of System: Musculoskeletal / peripheral vascular System | - Cases (GI/Endocrine)  - Using glucometers, injections  - Rx counseling: **Verapamil**  - Prepare for Rx counseling: **Digoxin** |
| **Week 14**  **Lect. BK** | 25  Nov. | Review of System :  Renal /Neurological system | - Cases(Musculoskeletal)  - Rx counseling: **Digoxin** |
| **Week 15**  **Lect. BK** | 2  Dec. | Nutritional assessment | - Cases (Neurological), Videos |
| **Week 16**  **Lect. BK** | 9  Dec. | Pain assessment | - Cases- Nutritional assessment  - Review session |
| **Week 17** | 16  Dec. | Lab Exam | **OSCE: (5 stations)** *Stations: Patient interview, Vitals assessment, counseling, device assessment (inhaler, glucometers)* |

**Course Policies**

## Attendance Policy

- Attendance of this class is mandatory. Student should exercise punctuality in attending classes. Attendance records and /or pop-quizzes for bonus points may be taken at any time, (points not compensated).

- Instructors have the right to deny late comers from attending. Students missing 25% or more on attendance are forbidden from setting in the final exam, per University Policy. Students have the right to present documents of proof for their absences. Students should submit such documents to College Academic Counsel to authenticate as per University Policy.

- Attendance of conferences/symposia should not interfere with student’s attendance of lectures/labs. Students should make arrangements with course instructors 2 weeks prior to the event.

## Lab Etiquette

* All students should wear a **clean white lab coat with a name badge for each lab**
* Lab extends for 3 hours, however, some labs periods maybe shorter. You will be notified at the beginning of each lab of the possible anticipated time. Eearly departures from the lab will be penalized by point deduction. If you anticipate having to leave class early, please let your instructor know beforehand.
* Each student must have a ring binder to maintain an organized, legible portfolio of ALL graded assignments and lab activities. This includes copies of all evaluations. In the situation were the assignment involved a real patient, ALL documentation must be devoid of any patient identifiers.

## Prior learning Skills

Students may encounter disease states or medications that have not yet been covered or not reviewed extensively in the curriculum. Students may need to independently review relevant literature and data sources to determine appropriate management of diseases for which their patients are receiving treatment.

## Class conduct/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.

- Unprofessional conduct including misbehavior during lectures will not be tolerated and may result in actions leading up to dismissal from the course. This includes but is not limited to arriving late or leaving early, talking between students during lectures, cell phone use and other disruptive behavior or sounds

- Course materials provided by instructors should be distributed by Email ONLY. Materials should not be posted on public forums as they are subjected to copyright protection. Students found in violation of this policy are subjected to disciplinary actions.

## Syllabus Changes

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes both by individual email communication and posting both notification and nature of change(s) on the course bulletin board.

## Errors in Grading

Errors in grading must be adjudicated by the instructor. If you believe that your work has been incorrectly graded (e.g. points were added up incorrectly), you must contact the instructor in writing and clearly state the error you believe has occurred. The instructor of the course will always determine the final grade. Grade change requests after the end of the term are further limited by the University’s policies

## E-mail Policy

Please note that the following applies to all emails sent to any member of PHCL 313 course instructors.

* Students should include their **name, course number and lecture section** in every email. If we don't know who you are, your email may not get a response.
* All emails should be sent from your **KSU** **account** (or other PROFESSIONAL emails). Students who don’t have a KSU account are advised to seek one immediately.
  + Each email must have a subject title indicating the purpose of the email
  + Body of the email:
    - Email text should be written in **OFFICIAL** Arabic, or in proper English.
    - English terms should be written in English or a proper translation should be used. Terms such as كيس instead of case are NOT allowed.
    - Each email should be started with : Dear Dr………., etc. You should end your email as follow: Respectfully, (then state your full name)
    - Emails not fulfilling ALL of the above will not recognized
  + If you are submitting a homework, you should receive a confirmation within 24-48 hrs, if not please see the instructor **in person** for clarification (don’t re-Email unless asked to)
* Mail from instructors to students will be sent to the class leader only who has the responsibility to forward to all students.
* Questions about lectures, homework and course organization may be sent to a specific course instructor’s email address.
* Emails should not be used to discuss personal problems, issues with grades, or problems with other students or other instructors. These emails will not be responded too, and these issues should be discussed in person.
* Emails not related to the course should not be sent to the instructors and if they are, no further emails will be received from that email address.

## Course Evaluation

An evaluation of the full course and course faculty will be administered towards the end of the course. Additionally, individual instructors or module coordinator may ask for an evaluation of their lecture(s)/modules.

## Course binding agreement

The Course binding agreement has to be signed by each student and returned through the class leader to the course instructor before the second lecture. Failure to do that will prevent student from attending further classes.

“I have read this syllabus, understand its implications (and have sought clarification of those parts that were unclear to me), and will abide by it.I understand that the course coordinator has the right to make alterations to the class and exam schedule as needed.”

Name of Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Student: \_\_\_\_\_\_­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To Student: Please fill and submit this PAGE by Week 2 to class leader.