

PHCL 413 (1+1)
Pharmacy Practice Lab 3
Course Syllabus

COURSE COORDINATOR/TEACHING FACULTY

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Lab Instructors	
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Course Day & Times

Lecture time: Wednesday 11-12

Lab Time: Wednesday 1-4 p.m.

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 of therapeutics to resolve drug related problems for a patient case including designing, implementing, monitoring, evaluating, and adjusting care plan that are patient specific and evidence-based.
2. Apply knowledge of pharmacology and medicinal chemistry in selection of drugs.
3. Demonstrate an understanding of a process for formulating concise, organized and rational recommendations to resolve actual and potential DRP.
4. Workup patient cases related to disease states covered in PHCL 412 and PHCL 414.
5. Utilize primary and secondary resources and clinical practice guidelines to make recommendations when resolving patient DRP.
6. Apply the principles of communicating patient data and recommendations.
7. Demonstrate an understanding of ECG interpretation.
8. Demonstrate an understanding of products for smoking cessation.

Cognitive Skills:

1. Formulate a patient-centered pharmaceutical care plan (new or revised) in collaboration with patient and other health care professionals, patients, and/or their caregivers.
2. Critically evaluate treatment options using sound scientific principles (including basic and clinical sciences) and evidence including the utilization of clinical practice guidelines.
3. Develop a monitoring plan for a patient on a specific medication.
4. Consider patient specific characteristics including health literacy, cultural diversity, and behavioral psychosocial issues.
5. Effectively counsel patients on smoking cessation products.
6. Conduct patient education including verification of patient understanding of treatment plan.
7. Interpret an ECG.

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. Display verbal and non-verbal mannerisms that promote empathetic, respectful and compassionate communication.
4. Present a brief informal presentation of patient cases to peers and instructors.
5. Provide accurate and succinct verbal and written information that is appropriate for the target audience (e.g. preceptor, patient, caregiver or other health care professionals).

Reading Material

Course Material

For Case Discussions:

Terry L. Schwinghammer, Julia M. Koehler. Pharmacotherapy Casebook: A Patient-Focused Approach. McGraw-Hill/Appleton & Lange. 9th ed. 2011.

Assigned Readings

For Motivational Interviewing (MI)

Motivational Interviewing for Health Care Professionals: A Sensible Approach. Berger and Villaume (2013)

<https://www.youtube.com/watch?v=uLhQGFeE5XE>

copies will be available through the blackboard

The 2013 AHA/ACC Guideline on Lifestyle Management to Reduce Cardiovascular Risk

<http://circ.ahajournals.org/content/early/2013/11/11/01.cir.0000437740.48606.d1>

For Professionalism

APhA pharmacy professionalism toolkit for students and faculty. Version 2. Available online from APhA website:

<http://www.aacp.org/resources/studentaffairspersonnel/studentaffairspolicies/Pages/professionalism.aspx>

Counseling Reference:

Lexicomp online through UpToDate: <http://www.uptodate.com/contents/table-of-contents>

Grade Policy and Distribution

Assessment	% of total
In-class activities AND Professionalism	35%
Quizzes	10%
Weekly Case Discussions (PBL)	30%
SOAP Note	10%
Formal Case Presentation	15%
Total	100%
<i>Final exam: To be determined</i>	

Course Outline

Week #	Date	Lecture time Wednesday 11-12	Lab Activities Wednesday 1 –p.m.
Week 1	Aug 26	Course objectives and expectations	No lab
Week 2	Sep 2	Professionalism 101 (IAS)	<ul style="list-style-type: none"> • Assigning groups • How to present a patient case (GAB) • Revisiting SOAP Note writing (GAB), SOAP note video • PBL Cases 1-Part 1: (IAS) – HTN/DLD
Week 3	Sep 9	Lifestyle for CVD Prevention (GAB)	<ul style="list-style-type: none"> • Cardiovascular Risk Assessment calculation (GAB) • PBL Case 1-Part 2: (IAS) – HTN/DLD • PBL case 2- Part 1 (GAB) – VTE/AC • Counseling Quiz 1 (Statin, Niacin, ACEI, Hydrochlorothiazide/ARB)-GAB
Week 4	Sep 16	Motivational Interviewing (IAS)	<ul style="list-style-type: none"> • PBL case 2- Part 2 (GAB) – VTE/AC • Counseling Quiz 2 (Dabigatran, Rivaroxaban, warfarin, Enoxparin)-GAB • Motivational Interviewing Video: High Cholesterol with MI and w/o MI
	Sep 23 Sep 30	Hajj Eid	
Week 5	Oct 7	Smoking cessation products (GAB)	<ul style="list-style-type: none"> • PBL Case 3- Part 1 (IAS) - IHD • Cases on smoking cessation (GAB) • Motivational Interviewing Video: smoking cessation with MI and w/o MI
Week 6	Oct 14	No lecture	<ul style="list-style-type: none"> • PBL Case 3- Part 2 (IAS) – HF • Counseling Quiz 3 (Aspirin, Plavix, Beta blocker, Nitrate)GAB • Quiz on smoking cessation products (GAB)
Week 7	Oct 21	ECG interpretation (GAB)	<ul style="list-style-type: none"> • PBL Case 3- Part 3 (GAB) (AFib + anticoagulation clinic therapy assessment + AC SOAP) • Interpreting ECG strips for heart, rhythm and drug effects (digoxin, Torsad de Pointe, QT prolongation, Hear rate) – (IAS) • Calculate CHADS2, CHA2DS2-Vasc and HAS-BLED scores
Week 8	Oct 28	Simulated Patient Interview 1	<ul style="list-style-type: none"> • PBL case 4: Part 1 (Asthma/COPD) - GAB • Asthma action plan + peak flow meter • Interpreting pulmonary function tests
Week 9	Nov 4	Simulated Patient Interview 2	<ul style="list-style-type: none"> • PBL case 4: Part 2 (Asthma/COPD) GAB • Video on asthma dialogue with and w/o MI • Nebulizers and inhaler products and counseling
Week 10	Nov 11	Formal case 1 and 2	<ul style="list-style-type: none"> • PBL case 4: Part 1 (Acute Kidney Injury) IAS • Cases on acid-base balance
Week 11	Nov 18	Formal case 3 and 4	<ul style="list-style-type: none"> • PBL case 4: Part 2 (Acute Kidney Injury) IAS • Dosage adjustment and renal equations IAS
Week 12	Nov 25	Formal case 5 and 6	<ul style="list-style-type: none"> • Managing Drug Interaction (drug, food, herb). Several cases of drug interaction: how to identify, and resolve. Including Pharmacokinetics & pharmacodynamic interactions (GAB)
Week 13	Dec 2	Formal case 7 and 8	<ul style="list-style-type: none"> • PBL case 5: Part 1 (CKD) IAS

			<ul style="list-style-type: none"> • Counseling Quiz 4 (TBD) IAS
Week 14	Dec 9	Formal case 9 and 10	<ul style="list-style-type: none"> • PBL case 5: Part 2 (CKD) IAS • Dialysis case scenario (GAB)
Week 15	Dec 16	Course evaluation and Feedback	

IAS: Ibrahim Sales, GAB: Ghada Bawazeer. PBL: problem based learning

Course Policies

Attendance Policy

- Attendance of this class is mandatory. Student should exercise punctuality in attending the class and the lab session.
- Attendance records and /or pop-quizzes for bonus points may be taken at any time, these will Not be compensated (no makeup) in case of any absences.
- In each class activity, points will be awarded to attendance and professionalism
- Attendance of conferences/symposia/committee meetings should not interfere with student's attendance of lectures/labs. Students should make arrangements with course instructors at least 2 weeks prior to professional events a student deemed necessary to attend.

Lab Etiquette

- All students should wear a clean white lab coat with a name badge for each lab
- ALL cell phones must be turned off or put on a silent mode.
- The Lab period officially 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. Early departures from the lab will be penalized by point deduction (see below). If you anticipate having to leave class early, please let your instructor knows before the lab.
- During the 3 hours lab time, student can use the restroom as often as they need, a 10-15 minutes break will be given during the lab time. You will be notified during each lab.

Prior Learning Skills

- Disease states covered during the therapeutic courses will be the focus of many of the activities during this course. However, students may encounter disease states or medications that have not yet been covered or not reviewed extensively in the curriculum. Students will need to independently review relevant literature and data sources to determine appropriate management of diseases for which their patients are receiving treatment.

In Class-Activities

- Most of the activities in this course will be conducted during the assigned time for the lecture and the lab. However, students are expected to spend 2-3 hours per week outside class time working on materials related to this course
- Any student, who misses a session, must present a valid documentation for absence **by the next lab session**. Failure to do so, a zero grade will be assigned to the missed lab activity.
- In case the absence documentation was accepted by the course coordinator, the lab activity can be either repeated for the student (depending on the nature of the activity), or an extra homework will be given . In all cases final decision must be approved by the course coordinator.
- Students who leave the lab at an early stage (either before completing that lab work, or more than 30 minutes before lab session ends, whichever comes first), 1 point will be deducted from that lab activity. If this behavior is repeated in another lab, 1 point deduction will be applied. A third repetition of such behavior

will risk the student get a Zero for that lab activity, regardless of how much they accomplished during the lab. Late comers (more than 5 minutes) to the lab will receive a verbal warning for the first occurrence, a point deduction for the second occurrence and refusal to enter the lab on the 3rd occurrence

- **Descriptions of the lab activity will be posted on weekly basis. It is the responsibility of the student to frequently visit the course page on Blackboard for any update, lab activity materials, etc.**

Homework/Assignments Submission Policy

- During this course, all homework and assignments must be **submitted on the next lab period**, unless specified otherwise by the course instructor.
- All homework/assignment **MSUT** be submitted as **Hardcopy**.
- Do not email your homework/assignment, unless you were asked to do so. If you can't find the instructor/lab facilitator, drop the homework at the department secretarial office.
- Any submitted homework/assignment must have a cover page with the course number, name of the activity, names of students, and the date.

Discussion of Grading

- If you believe that your work has been incorrectly graded (e.g. points were added up incorrectly), you must contact the instructor (within 1 week) in writing and clearly state the error you believe has occurred. The instructor of the course will always determine the final grade.

E-mail Policy

Please note that the following applies to all emails sent to any member of PHCL 413 course instructors.

- **Only KSU email** will be used for course, for both faculty and students
- Students should write clear and proper emails. The following are essential instructions:
 - **Email Subject:** Each email **must** have a subject title indicating the purpose of the email. Please use the following format:
 - PHCL 413: then state the purpose of your email (e.g. "a question about formal case presentation")
 - **Body of the email:**
 - Start the email with proper professional greeting, e.g. Alsalamo alikom Dr....,
 - 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 بریزنتاشن are NOT appropriate.
 - **End of the email text:**
 - End your email with a curtesy work such as: Thank you, respectfully, Best Regards....etc. You must state your full name and university ID number
 - If you are submitting a homework by email, 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)
 - Any submitted homework must have a covering page that include the activity/homework title, names of the students, and date
- Emails should not be used to discuss personal problems, issues with grades, or problems with other students or other instructors; these 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.

Confidentiality

- During this course you may be exposed to patients, care givers, and/or patient medical records. Students are expected to maintain utmost confidentiality of patient information. This includes masking any patient identifiers in assignments/activities requiring access to patient personal information (patient name, date of birth, medical record number, phone numbers, etc).

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 (e.g. disrespectfulness of faculty, colleague, use of personal use of cell phone, tardiness, excessive talking during lecture/lab on matters not related to this specific course, arriving late or leaving early) will not be tolerated and may result in actions leading up to dismissal from the course.

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 through Blackboard communication.

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. Students are encouraged to provide feedback on their learning as the course progress and provide an objective evaluation of the course at the end of the semester.

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. I am fully informed about the policy for attendance, grading and lab activities"

Name of Student: _____

University ID: _____

Signature of Student: _____

Date _____

To Student: Please fill and submit this PAGE by Week 2 to course coordinator.

Responsibility to write description of each lab activities.

we need to write the description of each lab activities to include the objective(s), description what the student's will do, time to complete the activity, grading and any rubric or forms (also helpful reading material). the following are the activities,

Problem based learning cases	ISA
Formal case presentation	ISA
Anticoagulation SOAP Note writing	ISA
Motivational interviewing videos	ISA
Smoking cessation mini-cases	ISA
Inhalers technique	ISA
Mini cases on risk assessment tools: Framingham, ASCVD, CHA2DS2-VASC, HAS-BLED	ISA
Mini cases on acid balance	GAB
Dosage adjustment in renal impairment	GAB
mini-cases on drug therapy for patients on hemodialysis	GAB
Counseling quizzes	GAB
Drug interaction mini cases	GAB
ECG interpretation	GAB
PFT interpretations	GAB
Simulated patients interview	GAB